Parte A. DATOS PERSONALES

Fecha del CVA	Junio 2019

Nombre y apellidos	María Pilar ARRUEBO LOSHUERTOS		
DNI/NIE/pasaporte		Edad	
Núm. identificación del investigador	Researcher ID	K-	
	Código Orcid	0000-0	

A.1. Situación profesional actual

Organismo	Universidad de Zaragoza			
Dpto./Centro	Facultad de Veterinaria. Departamento de Farmacología y Fisiología			
Dirección	C/ Miguel Servet, 177			
Teléfono	976/761651	correo electrónico	parruebo@unizar.es	
Categoría profesional	Catedrática de Universidad		Fecha inicio	9-12-2010
Espec. cód. UNESCO	241107, 320707, 249001, 241111, 320706			
Palabras clave	Fisiopatología digestiva, motilidad gastrointestinal, sensibilidad visceral, procesos infecciosos, inflamación, microbiota			

A.2. Formación académica *(título, institución, fecha)*

Licenciatura/Grado/Doctorado	Universidad	Año
Licenciada en Veterinaria	Zaragoza	1981
Doctora en Veterinaria	Zaragoza	1986

A.3. Indicadores generales de calidad de la producción científica *(véanse instrucciones)*

- **4** Sexenios de investigación CNEAI
- Tesis doctorales dirigidas: **8** (3 en los últimos 10 años**)**
- Citas totales recibidas: **515** (Web of Science *Core Collection*)
- Índice h=**14** (Web of Science *Core Collection*)
- Número total de publicaciones indexadas en JCR: **50**

Parte B. RESUMEN LIBRE DEL CURRÍCULUM *(máximo 3500 caracteres, incluyendo espacios en blanco)*

He desempeñado toda mi actividad profesional a tiempo completo en la Facultad de Veterinaria de la Universidad de Zaragoza.

Obtuve mi primer contrato en 1982, como Profesora Ayudante de Clases Prácticas en el Área de Fisiología. En 1992 accedí al puesto de Profesora Titular y en 2010 al actual de Catedrática de Universidad (Área de Fisiología).

He realizado estancias de investigación posdoctorales en 2 centros europeos: 7 meses en el CNRS de Meudon (Francia) y 7 meses en el INRA de Toulouse (Francia) con becas posdoctorales del MEC y del Gobierno de Aragón.

Para financiar la investigación llevada a cabo en el campo de la Fisiopatología digestiva, he participado con dedicación única en 6 proyectos financiados para 3 años cada uno por el Plan Nacional del MEC y en otros dos (también de tres años) con fondos del Gobierno de Aragón, así como en algunos proyectos menores, de un año de duración, financiados por la Universidad de Zaragoza y otras entidades locales. Asimismo, hemos mantenido colaboraciones científicas con otros grupos de investigación de diversos hospitales catalanes y de la Universidad Autónoma de Barcelona, a través de la participación durante 8 años en la Xarxa de Recerca en Neurogastroenterologia, financiada por la Generalitat de Catalunya.

En cuanto a colaboraciones con centros extranjeros, cabe mencionar las establecidas con el CNRS y el INSERM en París (Proyecto Nord-Sud), con el INRA de Toulouse (3 programas de acciones integradas hispano-francesas) y más recientemente con INSERM UMR-1043 / Hospital CHU Purpan, Toulouse (Francia), a través de Proyecto de Investigación y Desarrollo Tecnológico en el marco de cooperación de la Comunidad de Trabajo de los Pirineos y de un Proyecto de Cooperación Transfronteriza entre la Comunidad Autónoma de Aragón y las regiones francesas de Aquitania y Midi-Pyrénées.

He formado parte como miembro estable del Grupo de Investigación Consolidado B61 "Fisiopatología Gastrointestinal", financiado por el Gobierno de Aragón, desde 2006 hasta 2017 Actualmente pertenezco al grupo de investigación de referencia: "El efecto del Procesado Tecnológico de los Alimentos en las Patologías Digestivas y Alérgicas (ALIPAT, A02-17R), reconocido por el Gobierno de Aragón y financiado para tres años (2017-2019) con 34.379 euros. Soy miembro del Instituto Agroalimentario de Aragón (IA2).
El fruto de esta actividad investigadora se ha plasmado en la publicación de 50 artículos indexados en JCR. En los últimos 10 años (2006-16) el número de artículos publicados asciende a 20, de los que 17 se sitúan en el primer o segundo cuartil de las categorías del JCR.
He participado de forma continuada, con la presentación de más de 100 comunicaciones, en Congresos Científicos Nacionales e Internacionales. Impartí la conferencia inaugural por invitación, en la XI Reunión Iberoamericana de Cátedras de Fisiología Animal en Rosario (Argentina) en 2007, titulada "Mecanismos implicados en los trastornos de la motilidad gastrointestinal asociados a procesos infecciosos". He formado parte del Comité Científico y Comité organizador del 2nd y 5th Symposium on Veterinary Sciences (Zaragoza, Toulouse, Munich) celebrados en Zaragoza en 2008 y 2015, así como del XXXVIII Congreso Nacional de la SECF, celebrado en Zaragoza en 2016. He participado como chairman en dos Congresos Nacionales y en dos Congresos Internacionales.
He dirigido 8 tesis doctorales, 3 tesinas, 6 DEAS, 1 trabajo fin de máster y numerosos trabajos fin de grado y trabajos académicamente dirigidos a estudiantes. También he realizado la dirección, seguimiento y evaluación de las prácticas externas curriculares de un buen número de estudiantes, en colaboración con diversas empresas e instituciones.

Parte C. MÉRITOS MÁS RELEVANTES *(ordenados por tipología)*

C.1. Publicaciones seleccionadas de los últimos 10 años

- Gonzalo S, Valero MS, Martínez de Salinas F, Vergara C, Arruebo MP, Plaza MA, Murillo MD, Grasa L . Roles of toll-like receptor 4, IkB kinase, and the proteasome in the intestinal alterations caused by sepsis.. **Digestive Diseases and Sciences**, 60 1223-1231, **2015**. **Q2**
- Fagundes DS, Grasa L, Gonzalo S, Martínez de Salinas F, Arruebo MP, Plaza MA, Murillo MD.Mechanism of action od troloz on duodenal contractility. **Journal of Physiology and Pharmacology**, 64 (6): 705-710, **2013**. **Q2**
- Castro M, Muñoz JM, Arruebo MP, Murillo MD, Arnal C, Bonafonte JI, Plaza MA. Involvement of neuronal nitric oxide synthase (nNOS) in the regulation of migrating motor complex (MMC) in sheep. **Veterinary Journal**, 192 (3): 352–358, **2012**. **Q1**
- Gonzalo S, Grasa L, Arruebo MP, Plaza MA, Murillo MD. Extracellular signal-regulated kinase (ERK) is involved in LPS-induced disturbances in intestinal motility. **Neurogastroenterology and Motility**, 23 (2): e80-e90, **2011**. **Q1**
- Gonzalo S, Grasa L, Arruebo MP, Plaza MA, Murillo MD. Lipopolysaccharide-induced intestinal motility disturbances are mediated by c-Jun NH2-terminal kinases. **Digestive and Liver Disease**, 43 (4): 277-285. **2011**. **Q2**
- Hernández LV, Gonzalo S, Castro M, Arruebo MP, Plaza MA, Murillo MD, Grasa L. Nuclear factor κB is a key transcription factor in the duodenal contractility alterations induced by lipopolysaccharide. **Experimental Physiology**, 96 (11): 1151-1162, **2011**. **Q2, 1er tercil.**
- Gonzalo S, Grasa L, Arruebo MP, Plaza MA, Murillo MD. Inhibition of p38 MAPK improves intestinal disturbances and oxidative stress induced in a rabbit endotoxemia model. **Neurogastroenterology and Motility**, 22(5): 564-572, **2010**. **Q1**
- Gonzalo S, Grasa L, Fagundes DS, Arruebo MP, Plaza MA, Murillo MD. Intestinal effects of lipopolysaccharide in rabbit are mediated by cyclooxygenase-2 through p38 mitogen activated protein kinase**. European Journal of Pharmacology**, 648 (1-3): 171-178, **2010**. **Q2**

- Fagundes DS, Gonzalo S, Arruebo MP, Plaza MA, Murillo MD. Melatonin and trolox ameliorate duodenal LPS-induced disturbances and oxidative stress. **Digestive and Liver Disease**. (42), 40-44. **2010**. **Q2**
- Grasa L, Arruebo MP, Plaza MA, Murillo MD. A downregulation of nNOS is associated to dysmotility evoked by lipopolysaccharide in rabbit duodenum. **Journal of Physiology and Pharmacology**, 59 (3): 511-524, **2008**. **Q2**

C.2. Proyectos (seleccionados de los 10 últimos años)

Título: Efecto de los tratamientos tecnológicos en la actividad de proteínas y fracciones lácteas en la funcionalidad intestinal: potencial para su aplicación en alimentos funcionales. (AGL2017-82987-R)
Entidad financiadora: **Ministerio de Economía, Industria y Competitividad**
Convocatoria: 2017
Investigador principal: Mª Lourdes Sánchez Paniagua y Miguel Angel Plaza Carrión
Tipo de participación: **Investigador (dedicación única)**.
Duración: 3 años (**2018-2020)**). Financiación: 102.850 €.

Referencia: B61
Título: Fisiopatología gastrointestinal.
Entidad financiadora: **Gobierno de Aragón**.
Convocatoria: Reconocimiento como Grupo de Investigación Consolidado
Investigador principal: Miguel Ángel Plaza (2006-2013) y José Emilio Mesonero (2014-2016)
Tipo de participación: **Investigador (miembro estable)**.
Duración: 10 años (**2007-2016**). Financiación total: 130.185,27 €.

Título: Diagnóstico e identificación de las dianas terapéuticas en los dolores viscerales crónicos: enfoque sobre los mediadores lipídicos y los receptores de la familia del potencial receptor transitorio.
Entidad financiadora: **Gobierno de Aragón**.
Entidades participantes: 1) Dpto. Farmacología y Fisiología, Univ. Zaragoza. 2) INSERM UMR-1043 / Hospital CHU Purpan, Toulouse (Francia). 3) Dpto. Biología Celular, Fisiología e Inmunología, Univ. Autónoma Barcelona. 4) Laboratorios Ambiotis, Toulouse (Francia). 5) Laboratorios Urosphere, Labège (Francia).
Convocatoria: Proyecto de Investigación y Desarrollo Tecnológico en el marco de cooperación de la **Comunidad de Trabajo de los Pirineos**
Investigador principal: Miguel Ángel Plaza Carrión (Universidad de Zaragoza)
Tipo de participación: **Investigador (dedicación única).**
Duración: 2 años (**2012-2013**)
Financiación total recibida: 82.380 € (21.800 € para nuestro grupo de Aragón).

Referencia: I-2011/017
Título: Vías fisiopatológicas implicadas en los trastornos digestivos.
Entidad financiadora: **Gobierno de Aragón**.
Convocatoria: Proyecto de **Cooperación Transfronteriza** entre la Comunidad Autónoma de Aragón y las regiones francesas de Aquitania y Midi-Pyrénées.
Entidades participantes: Dpto. Farmacología y Fisiología, Univ. Zaragoza. INSERM UMR-1043 / Hospital CHU Purpan, Toulouse (Francia).
Investigador principal: Miguel Ángel Plaza Carrión (Universidad de Zaragoza)
Tipo de participación: **Investigador (dedicación única)**.
Duración: 1 año (**2011**). Financiación: 5.000 €.

Referencia: AGL2006-04317/GAN
Título: Estudio de las vías fisiopatológicas implicadas en los trastornos motores gastrointestinales inducidos por agentes infecciosos.
Entidad financiadora: **Ministerio de Educación y Ciencia (DGI)**.
Convocatoria: Proyectos del Plan Nacional
Investigador principal: Mª Divina Murillo López de Silanes (Universidad de Zaragoza)

Tipo de participación: **Investigador (dedicación única)**.
Duración: 3 años (**01/10/2006-30/09/2009**). Financiación: 76.230 €.

C.5. Premios

Premio de Investigación Coris Gruart 2010. Modalidad A, por el trabajo: La inhibición de la p38 MAPK mejora las alteraciones intestinales y el estrés oxidativo inducidos en un modelo de endotoxemia en conejo.
Autores: Sergio Gonzalo, Laura Grasa, Mª Pilar Arruebo, Miguel Ángel Plaza y Mª Divina Murillo
Organismo: Patronato Enrique Coris Gruart. Facultad de Veterinaria de Zaragoza.
Tipo de evaluación de los trabajos: A través de **ANEP**
Fecha: Año 2010.

Premio "Posters of Excellence" del congreso 21st **United European Gastroenterology** (UEG) Week. Berlín (Alemania) 12-16 de octubre de **2013**, por la comunicación: Grasa L, Castro M, Latorre E, Layunta E, Gonzalo S, Gimeno A, Mesonero JE, Arruebo MP, Plaza MA, Alcalde AI, Murillo MD. Depletion of murine intestinal microbiota by antibiotics: Effects on gut transit and toll-like receptors expression.
Organismo: **United European Gastroenterology** (UEG).
Fecha: 12-16 de octubre de 2013.

Premio "Mejores 3 artículos publicados en la Revista Española de Enfermedades Digestivas 2012" por el artículo: Gonzalo S, Grasa L, Hernández LV, Arruebo MP, Plaza MA, Murillo MD. Mitogen activated protein kinases blockade improves lipopolysaccharide-induced ileal motor disturbances. Revista Española de Enfermedades Digestivas, 104 (6): 303–309, 2012.
Organismo: Sociedad Española de Patología Digestiva (SEPD).
Fecha: Año 2012.

C.6 Actividades de Evaluación

- Miembro del Comité de Selección del **programa de Becas de la Fundación "La Caixa", para estudios de posgrado en Universidades Europeas**, en las convocatorias de 2012 y 2013. Valoración de los expedientes y desarrollo de entrevistas personales, realizadas en Barcelona y Madrid a un total de 63 candidatos en 2012 y 52 candidatos en 2013.
- Miembro del **Panel de Expertos del programa ACADEMIA de ANECA** para evaluación en el proceso de **Acreditación Nacional** para Profesor Titular y Catedrático de Universidad, en la rama de Ciencias de la Salud, desde Abril de 2013 hasta la actualidad.
- Experto/a de la **Agència Valenciana d'Avaluació i Prospectiva de la Generalitat Valenciana,** para evaluación de:
  - **Ayudas para la formación de personal investigador** del Gobierno de las Islas baleares (Convocatoria 2016)
  - **Ayudas para la contratación de personal investigador en fase postdoctoral**" de la Generalitat Valenciana (**APOSTD**, 2017 y 2018)
  - **Subvenciones para la captación de proyectos europeos u otros programas de carácter internacional" (APE** 2018),
  - **Subvenciones del programa para la promoción de la investigación científica, el desarrollo tecnológico y la innovación en la Comunitat Valenciana"** (**ACIF** 2018)

- **Subvenciones para la realización de proyectos de I+D+I desarrollados por grupos de investigación emergentes (GV-**2018**).**
- **III Convocatoria de ayudas para el fomento de la actividad investigadora de la fundación fisabio para larealización de tesis doctorales.** 2018
- **Evaluación de la actividad investigadora del profesorado contratado (sexenios).** 2018
- **Convocatoria de ayudas para el fomento de la actividad investigadora de la fundación fisabio, para la realización de contratos postgrado.** 2018**.**

- Evaluadora **ANECA del área de Biomedicina**, en el programa de subvenciones para estancias de investigación de profesores (Programa "**Salvador de Madariaga**") y de jóvenes doctores (Programa "**José Castillejo**"), convocatoria de 2017.
- **Presidenta de la Comisión de Ciencias de la Salud de ANECA**, para la evaluación de complementos retributivos de **reconocimiento de la labor investigadora del personal docente e investigador de la Universidad de Extremadura**. 2018.

C.7 Cargos de Gestión Universitaria desempeñados

Vicedecana en materia de Ordenación Académica y Calidad, en la Facultad de Veterinaria de la Universidad de Zaragoza, en tres decanatos consecutivos, desde diciembre de 2003 hasta abril de 2016.

INSTRUCCIONES PARA RELLENAR EL CVA

AVISO IMPORTANTE

En virtud del artículo 11 de la convocatoria **NO SE ACEPTARÁ NI SERÁ SUBSANABLE EL CURRÍCULUM ABREVIADO** que no se presente en este formato.

Fecha del CVA	27/03/2019

Parte A. DATOS PERSONALES

Nombre y Apellidos	Victoria Cachofeiro Ramos		
DNI		Edad	
Núm. identificación del investigador	Researcher ID		
	Scopus Author ID		
	Código ORCID	000	

A.1. Situación profesional actual

Organismo	Universidad Complutense de Madrid		
Dpto. / Centro	FISIOLOGIA / F. MEDICINA		
Dirección			
Teléfono	Correo electrónico	vcara@ucm.es	
Categoría profesional	Catedrático de Universidad	Fecha inicio	2011
Espec. cód. UNESCO	241100 - Fisiología humana; 310909 - Fisiología		
Palabras clave			

A.2. Formación académica (titulo, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
Doctor en Programa Oficial de Posgrado en Biología	Universidad Complutense de Madrid	1986
Licenciado en Ciencias Biológicas Especialidad Biología Fundamental	Facultad de Ciencias Biológicas	1981

A.3. Indicadores generales de calidad de la producción científica

-Indicadores generales de calidad científica **(Web of Science database**)
- Número de sexenios de investigación: 5; fecha del último concedido: junio de 2013
- Número de tesis doctorales dirigidas: 11
- Citas totales: 3676
- Promedio citas/año durante los últimos 5 años (sin incluir año actual): 290,4
- Publicaciones totales indexadas en PUBMED: 140
- Publicaciones totales en primer cuartil Q1: 116
- 57 capítulos de libros
- Índice H: 32

Google Scholar database:

-Indice H: 41
- i10 index: 103

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

Victoria Cachofeiro es Catedrática de Fisiología y Coordinadora del Grupo de investigación en Fisiopatología Cardiovascular y Metabólica de la Obesidad del Departamento de Fisiología, Facultad de Medicina de la Universidad Complutense de Madrid. Después de completar su tesis, completó su formación investigadora en Clinical Research Institue de Montreal (Canadá; 1987-1988) y en New York Medical College (1989-1991). El objetico principal de la línea de trabajo del grupo se centra en el estudio de los mecanismos que subyacen al desarrollo de las alteraciones funcionales y estructurales cardiacas en el contexto de la obesidad; con especial atención al papel de la fibrosis miocárdica y la búsqueda de posibles dianas terapéuticas y de biomarcadores que ayuden a un mejor diagnóstico o al seguimiento clínico de los pacientes, por lo tanto, con una aproximación traslacional. En este contexto, su trabajo ha permitido la identificación de distintos mecanismos implicados en el remodelado cardiovascular asociado no sólo a la obesidad sino a otros factores de riesgo cardiovascular como la hipertensión y el envejecimiento. Victoria Cachofeiro tiene una amplia experiencia formativa tanto a nivel de pregrado como de postgrado donde realiza una

intensa tarea en el Máster de Investigación en Medicina Traslacional y en el Programa de Doctorado "Investigación en Biomedicina" de la Facultad de Medicina de la UCM, del que es miembro de la Comisión académica. Asimismo, participa en la formación de estudiantes internacionales procedentes del "Programme International de Master" programa del que forma parte el Departamento de Fisiología y que proceden de la Université Pierre et Marie Curie de Paris. En este momento forma parte, además, de un consorcio formado por profesores e investigadores de diferentes países europeos que está intentando poner en marcha un programa de doctorado centrado en el área cardiovascular (EU – ITN: ETN European Training Network).

Durante los últimos 15 años, Victoria Cachofeiro ha obtenido financiación y ha sido investigador principal de numerosos proyectos financiados por los Ministerios de Salud, Educación y Economía y Competitividad de España, así como por Fundaciones y Sociedades Científicas. Victoria Cachofeiro ha sido el IP de un grupo que ha pertenecido a la Red de Cooperación Española de Investigación Cardiovascular (RECAVA y RIC), y pertenece al Centro de Investigación Biomédica en Red Cardiovascular (CIBERCV) del Instituto de Salud Carlos III. Victoria Cachofeiro es editora de 4 libros de texto y editor asociado de revistas como Hypertension, Frontiers in Physiology y Therapeutic Advances in cardiovascular Disease. Finalmente mencionar que ha sido Miembro de la **evaluación de titulaciones universitarias** de ACUSYL (Ciencias de la Salud), es Presidenta de la Comisión de acreditación de profesorado del Comité de Ciencias Médicas y de la Salud de la DEVA y Miembro de la Comisión de Evaluación del Programa Juan de la Cierva-Formación (Área de Biomedicina), Agencia Estatal de Investigación (AEI).

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

1 **Artículo científico**. Cachofeiro V; et al. 2019. The impact of cardiac lipotoxicity on cardiac function and miRNAs signature in obese and non-obese rats with myocardial infarction Scientific Reports. Springer Nature.
2 **Artículo científico**. Ibarrola J; et al. 2018. Aldosterone Impairs Mitochondrial Function in Human Cardiac Fibroblasts via A-Kinase Anchor Protein 12.Scientific Reports. NATURE PUBLISHING GROUP.
3 **Artículo científico**. Ibarrola J; et al. 2018. Galectin-3 downregulates antioxidant peroxiredoxin-4 in human cardiac fibroblasts: a new pathway to induce cardiac damage? Clinical Science. PORTLAND PRESS LTD.
4 **Artículo científico**. J Ibarrola; et al. (14/11). 2018. A role for fumarate hydratase in mediatingoxidative effects of galectin-3 in human cardiac fibroblasts.;; International Journal of Cardiology. ISSN 0167-5273.
5 **Artículo científico**. Marin-Royo G; et al. (11/11). 2018. Inhibition of galectin-3 ameliorates the consequences of cardiaclipotoxicity in a rat model of diet-induced obesity.; Disease models and mechanism. ISSN 1754-8403.
6 **Artículo científico**. J Gutiérrez-Tenorio; et al. (14/14). 2017. The role of oxidative stress in the crosstalk between leptin and mineralocorticoid receptor in the cardiac fibrosis associated with obesity.Scientific Reports. 1. ISSN 20452322.
7 **Artículo científico**. E Martínez-Martínez; et al. (8/6). 2017. Galectin-3 pharmacological inhibition attenuates early renal damage inspontaneously hypertensive rats.; Journal of Hypertension. ISSN 0263-6352.
8 **Artículo científico**. J Ibarrola; et al. (11/10). 2017. Beneficial Effects of Galectin-3 Blockade in Vascular and Aortic ValveAlterations in an Experimental Pressure Overload Model International Journal of Molecular Sciences. 8. ISSN 1422-0067.
9 **Artículo científico**. V Arrieta; et al. (10/8). 2017. A role for galectin-3;in the development of early molecular alterations in short-term aortic stenosis.Clinical Science. 10, pp.935-949. ISSN 0009-9287.
10 **Artículo científico**. E Lucas; et al. (7/5). 2016. Obesity-induced cardiac lipid accumulation in adult mice is modulated by G protein-coupled receptor kinase 2 levels.Cardiovascular Diabetology. 1. ISSN 1475-2840.

11 **Artículo científico**. MARIA VICTORIA CACHOFEIRO RAMOS; et al. (/6). 2016. Galectin-3 Blockade Reduces Renal Fibrosis in Two Normotensive Experimental Models of Renal Damage.PLoS ONE. 11. ISSN 1932-6203.
12 **Artículo científico**. JR Sabada; et al. (10/9). 2016. Role for Galectin-3 in Calcific Aortic Valve Stenosis.Journal American Heart Association. 11.
13 **Artículo científico**. MS Avendaño; et al. (15/13). 2016. Role of COX-2-derived PGE2 on vascular stiffness and function inhypertension.British Journal of Pharmacology. 9, pp.1541-1555. ISSN 0007-1188.
14 **Artículo científico**. V BARRIO; et al. (/5). 2016. High levels of circulating TNFR1 increase the risk of all-cause mortality and progression of renal disease in type 2 diabetic nephropathy.Nephrology. ISSN 1320-5358.
15 **Artículo científico**. E Martínez-Martínez; et al. (11/11). 2016. The lysyl oxidase inhibitor (-aminopropionitrile) reduces leptin profibroticeffects and ameliorates cardiovascular remodeling in diet-induced obesity inrats.Journal of Molecular and Cellular Cardiology. pp.96-104. ISSN 0022-2828.
16 **Artículo científico**. E Martinez-Martinez; et al. (9/8). 2016. Galectin-3 inhibition prevents adipose tissue remodelling in obesity.International Journal of Obesity. ISSN 0307-0565.
17 **Artículo científico**. A. Torres; et al. (8/2). 2015. Red wine intake but not other alcoholic beverages increases totalantioxidant capacity and improves pro-inflammatory profile after an oral fatdiet in healthy volunteers.Revista Clinica Espanola. 9, pp.486-494. ISSN 0014-2565.
18 **Artículo científico**. E Martínez-Martínez; et al. (12/12). 2015. Galectin-3 participates in cardiovascular remodeling associated withobesity.; Hypertension. 5, pp.961-969. ISSN 0194-911X.
19 **Artículo científico**. E Martínez-Martínez; et al. (11/10). 2015. Galectin 3 blockade inhibits cardiac inflammation and fibrosis in experimental hyperaldosteronism and hypertension.Hypertension. ISSN 0194-911X.
20 **Artículo científico**. E Martínez-Martínez; et al. (14/2). 2015. Interleukin-33/ST2 system attenuates aldosterone-induced adipogenesis and inflammation.Molecular and Cellular Endocrinology. pp.20-27. ISSN 0303-7207.
21 **Artículo científico**. M Miana; et al. (11/11). 2015. The lysyl oxidase inhibitor, -aminopropionitrile,reduces body weight gain and improves the metabolic profile in diet-inducedobesity.; Disease models and mechanism. ISSN 1754-8403.
22 **Artículo científico**. R Hernanz; et al. (12/5). 2015. Toll-like receptor 4contributes to vascular remodelling and endothelial dysfunction in angiotensinII-induced hypertension.; British Journal of Pharmacology. ISSN 0007-1188.
23 **Artículo científico**. L. Calvier; et al. (9/4). 2015. The Impact of Galectin-3 Inhibition on;Aldosterone-Induced Cardiac and Renal;Injuries.Journal of American College of Cardiology:Heart Failure. 1, pp.59-67. ISSN 2213-1779.
24 **Artículo científico**. A Gomez-Hernandez; et al. (12/10). 2014. Antagonistic effect of TNF-alpha and insulin on uncoupling protein 2 (UCP-2) expression and vascular damage.Cardiovascular Diabetology. ISSN 1475-2840.
25 **Artículo científico**. SANDRA BALLESTEROS; et al. (/10). 2014. Leptin induces cardiac fibrosis through galectin-3, mTOR and oxidative stress. Potential role of obesity.Journal of Hypertension. 5, pp.1104-1114. ISSN 0263-6352.
26 **Artículo científico**. R Martin; et al. (6/5). 2014. Oleanolic acid modulates the immune-inflammatory response in mice with experimental autoimmune myocarditis and protects from cardiac injury. Therapeutic implications for the human disease.Journal of Molecular and Cellular Cardiology. ISSN 0022-2828.
27 **Artículo científico**. MARIA VICTORIA CACHOFEIRO RAMOS; et al. (/4). 2014. Leptin, a mediator of cardiac damage associated with obesity.Hormone Molecular Biology and clinical investigation. 1, pp.3-14.
28 **Artículo científico**. MARIA VICTORIA CACHOFEIRO RAMOS. (/1). 2014. Rosuvastatin improves insulin sensitivity in overweight rats induced by high fat diet. Role of SIRT1 in adipose tissue.Clinica e Investigacion en Arteriosclerosis. ISSN 0214-9168.

29 **Artículo científico**. MARIA VISITACION BARTOLOME PASCUAL; et al. (/8). 2014. The potential role of leptin in the vascular remodeling associated with obesity.; International Journal of Obesity. ISSN 0307-0565.

30 **Capítulo de libro**. Cachofeiro V; Luaces M. 2018. El envejecimiento del sistema cardiovascular Medicina Estética y antienvejecimiento, 2ª Ed. Panamericana. pp.827-836.

C.2. Proyectos

1 PI18/00257, Papel del estrés del retículo endoplásmico y sus moduladores en la fibrosis asociada a la isquemia miocárdica en el contexto de la obesidad. Relevancia de los miRNAs. Investigación en Salud. Victoria Cachofeiro Ramos. (Universidad Complutense de Madrid). 01/01/2019-31/12/2021. 111.320 €.

2 CIBER EN INVESTIGACIÓN EN ENFERMEDADES CARDIOVASCULARES (CIBERCV) M Salaices. 01/01/2017-31/12/2018.

3 Papel del estrés oxidativo mitocondrial y los cambios en el lipidoma en la fibrosis asociada a la obesidad en el infarto agudo de miocardio. Mecanismos implicados INSTITUTO DE SALUD CARLOS III. MARIA VICTORIA CACHOFEIRO RAMOS. 01/01/2016-31/12/2018. 111.000 €.

4 Mecanismos implicados en las alteraciones de la mecánica cardiaca asociada a la obesidad en el infarto agudo de miocardio. Utilidad de los niveles circulantes de miRNAs, SOCIEDAD ESPAÑOLA DE CARDIOLOGIA. MARIA VICTORIA CACHOFEIRO RAMOS. 01/11/2016-29/08/2018.

5 Evaluación de la fibrosis miocárdica difusa en pacientes obesos en el infarto agudo de miocardio. Relación con la mecánica cardiaca tisular y mecanismos implicados Fundación Mutua Madrileña. MARIA LUACES MENDEZ. 30/10/2016-31/12/2017.

6 Mecanismosimplicados en la fibrosis miocárdica difusa. Papel de los cambios metabólicosmiocárdicos.; FUNDACIÓN EUGENIO RODRÍGUEZ PASCUAL. MARIA VICTORIA CACHOFEIRO RAMOS. 01/01/2015-31/12/2017.

7 Aldosterone and mineralocorticoid receptor: Pathophysiology, clinical implications and therapeutic innovations MARIA VICTORIA CACHOFEIRO RAMOS. 01/01/2014-31/12/2017.

C.3. Contratos

1 Impacto de la obesidad sobre el lipidoma cardiaco. Consecuencias funcionales.; FUNDACIÓN ESPAÑOLA DE ARTERIOSCLEROSIS. MARIA VICTORIA CACHOFEIRO RAMOS. 01/01/2016-01/01/2017.

2 Utilidad de los microRNAs circulantes en la detección de dilataciones subaneurismáticas de aorta y relación con la aldosterona en pacientes hipertensos.; SOCIEDAD DE MEDICINA INTERNA DE MADRID-CASTILLA LA MANCHA. LA ALVAREZ- SALAS. 01/01/2014-P1Y4D.

C.4. Patentes

Ministerio de Economía y Competitividad

Secretaría de Estado de Investigación, Desarrollo e Innovación

Currículum

GONZALO COSTA BUITRAGO

DATOS PERSONALES

APELLIDOS: COSTA BUITRAGO
NOMBRE: GONZALO
D.N.
Nº FUNCIONARIO:
FECHA DE NACIMIENTO:
DIRECCIÓN PARTICULAR:

e-mail: costabuitrago@gmail.com

SITUACIÓN PROFESIONAL ACTUAL

ORGANISMO: Universidad Complutense
FACULTAD: Veterinaria
DEPARTAMENTO: Fisiología (Fisiología Animal)
CATEGORIA PROFESIONAL Y FECHA DE INICIO: Catedrático de Universidad (17-04-2017)
DEDICACIÓN: Tiempo Completo
ESPECIALIZACIÓN (Código UNESCO): 310909
DIRECCIÓN: Departamento de Fisiología. Facultad de Veterinaria. Universidad Complutense. 28040-Madrid.
TELÉFONO: 91-394.38.64
e-mail: costag@vet.ucm.es

ACTIVIDADES ANTERIORES DE CARÁCTER CIENTÍFICO Y PROFESIONAL

Profesor Encargado de Curso D1. Facultad de Veterinaria. Universidad Complutense de Madrid (de 15-3-79 a 28-2-83).

Profesor Ayudante. Facultad de Veterinaria. Universidad Complutense de Madrid (de 1-11-79 a 28-2-83).

Profesor Adjunto Interino. Facultad de Veterinaria. Universidad Complutense de Madrid (de 1-3-83 a 16-12-85).

Profesor Titular (Tiempo Completo). Departamento de Fisiología. Facultad de Veterinaria. Universidad Complutense de Madrid (inicio 17-12-85).

Becario del Ministerio de Educación de Dinamarca (1-9-86 a 1-6-87)

1.- ACTIVIDAD ACADÉMICA

LICENCIATURA: Veterinaria.
CENTRO: Facultad de Veterinaria. Universidad Complutense de Madrid
FECHA: 8-6-1978

TESINA: “Influencia de los derivados hidantoínicos sobre el sistema cardiovascular”
DIRECTOR: Albino García Sacristán
CENTRO: Facultad de Veterinaria. Universidad Complutense de Madrid. Calificación:
FECHA: 14-7-1978
CALIFICACIÓN: Sobresaliente

DOCTORADO: Veterinaria.
TÍTULO: “Correlaciones entre parámetros morfológicos y electrocardiográficos en el corazón del caballo”
DIRECTOR: Mariano Illera Martín
CENTRO: Facultad de Veterinaria. Universidad Complutense de Madrid.
FECHA: 9-2-1983
CALIFICACIÓN: Sobresaliente “*cum laude*”

2.- ACTIVIDAD INVESTIGADORA

2.1.- LÍNEAS DE INVESTIGACIÓN

- Correlaciones entre parámetros morfológicos y electrocardiográficos en el corazón del caballo. Tesis doctoral (1979-1983)

- Mecanismos de contracción y relajación del músculo liso uretral y papel del calcio (1986-1989)

- Mecanismos endoteliales que regulan la reactividad vascular de arterias del oviducto (1988-1998)

- Función del óxido nítrico como neurotransmisor uretral (1990-2012)

- Papel de las células intersticiales de Cajal en la funcionalidad del tracto urinario (2003-2012)

- Nanopartículas de hierro (nZVI) en la remediación de suelos contaminados por metales pesados y compuestos orgánicos: Efectos sobre la biota del suelo (2013-2016)

- Microplásticos como vectores de contaminantes emergentes en el ecosistema terrestre: biomarcadores de exposición e impacto ecotoxicológico (2016-continua)

2.2.- BECAS

ORGANISMO: Beca del Ministerio de Educación de Dinamarca.
LUGAR: Institute of Pharmacology. University of Aarhus.
LOCALIDAD: Aarhus (Dinamarca)
PERÍODO: 01-09-1986 hasta 01-06-1987

2.3.- INDICADORES GENERALES DE LA PRODUCCIÓN CIENTÍFICA

- **Sexenios de investigación:**

  5 (23-11-1990; 19-07-1996; 21-04-2002; 08-06-2009; 15-06-2015)

- **Publicaciones:** 51 artículos
  Primer cuartil: 27
  Segundo cuartil: 5
  Tercer cuartil: 10
  Cuarto cuartil: 3

- **Comunicaciones a Congresos:**

Nacionales: 35
Internacionales: 29

2.4.- PERTENENCIA A GRUPOS DE INVESTIGACIÓN UCM

920307 NEUROTRANSMISIÓN Y NEUROMODULACIÓN EN SISTEMA NERVIOSO CENTRAL Y PERIFÉRICO.
Dedicación EXCLUSIVA
Periodo: 22/12/2004 al 02/02/2012

910315 BIOTECNOLOGÍA APLICADA A LA DESCONTAMINACIÓN
Periodo: 02/02/2012 - actualidad
Dedicación EXCLUSIVA

2.5.- PARTICIPACIÓN EN PROYECTOS DE INVESTIGACIÓN FINANCIADOS

TÍTULO DEL PROYECTO: Influencia del calcio y del endotelio en el funcionalismo del músculo liso vascular del tracto genital de bóvidos.
ENTIDAD FINANCIADORA: UCM (Grupos precompetitivos) (UCP028/87)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 1 año (1988-1989)
CUANTÍA: 1.000.000 ptas
PARTICIPACIÓN: Investigador principal

TÍTULO DEL PROYECTO: Reactividad vascular del oviducto de la vaca.
ENTIDAD FINANCIADORA: FISss (89/0054)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 1 año (1989-1990)
CUANTÍA: 1.250.000 ptas
PARTICIPACIÓN: Investigador principal

TÍTULO DEL PROYECTO: Función del músculo liso vascular en el oviducto de la vaca
ENTIDAD FINANCIADORA: DGICYT (PB87-0076)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 2 años (1987-1990)
CUANTÍA: 4.000.000 ptas
PARTICIPACIÓN: Investigador principal

TÍTULO DEL PROYECTO: Mecanismos endoteliales que modulan la reactividad de arterias y venas del oviducto.
ENTIDAD FINANCIADORA: CICYT I+D (SAF92-0439)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 3 años (1992-1995)
CUANTÍA: 4.000.000 ptas
PARTICIPACIÓN: Investigador principal

TÍTULO DEL PROYECTO: Óxido nítrico en el tracto urinario: papel regulador y su modulación fisiológica.
ENTIDADES FINANCIADORA: DGICYT (PB94-0275)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 3 años (1995-1998)
CUANTÍA: 5.500.000 ptas
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TÍTULO DEL PROYECTO: Óxido nítrico en el tracto urinario: papel regulador y su modulación fisiológica.
ENTIDADES FINANCIADORA: FISss (95/1541)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 2 años (1995-1997)
CUANTÍA: 6.900.000 ptas
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TÍTULO: Localización y papel funcional de la actividad óxido nítrico sintasa en el músculo estriado del esfinter uretral externo I.
ENTIDAD FINANCIADORA: CAM (08.5/0027.1/99)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 1 año (2000-2001)
CUANTÍA: 2.875.000 ptas
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TITULO: Neurotransmisión nitrérgica de la uretra: Posible implicación de un nitrocompuesto fotolábil endógeno.
ENTIDAD FINANCIADORA: F.I.S. (nº 00/0425)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 3 años (2000-2002)
CUANTÍA: 7.419.000 ptas
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Domingo Triguero Robles

TÍTULO: Localización y papel funcional de la actividad óxido nítrico sintasa en el músculo estriado del esfinter uretral externo.
ENTIDAD FINANCIADORA: MCYT (nº PM99-0053-C02-01)
ENTIDADES PARTICIPANTES: Dpto. Fisiología. Facultad de Veterinaria. UCM
DURACIÓN: 3 años (2001-2003)
CUANTÍA: 7.225.000 ptas
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TÍTULO: Neurotransmisión y modulación mediada por óxido nítrico en el músculo liso y estriado de la uretra: Estudios funcionales.
ENTIDAD FINANCIADORA: MCYT (nº BFI 2003-04082-C02-01)
ENTIDADES PARTICIPANTES: Dpto. Fisiología y Dpto. Anatomía y Anatomía Comparadas. Facultad de Veterinaria. UCM
DURACIÓN: 3 años (2004-2007)
CUANTÍA: 65.000 euros
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TÍTULO DEL PROYECTO: Neurotransmisión y neuromodulación en sistema nervioso central y periférico
ENTIDAD FINANCIADORA: UCM y Comunidad de Madrid (2005-920307)
ENTIDADES PARTICIPANTES: Dpto. Fisiología, Dpto. Bioquímica y Dpto. Anatomía. Fac. Veterinaria. UCM
DURACIÓN: 1 año (2005-2006)
CUANTÍA: 20.020 euros
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TÍTULO DEL PROYECTO: Regulación por NO/GMP cíclico en el músculo liso y estriado de la uretra: aspectos funcionales
ENTIDAD FINANCIADORA: MEC (BFU2006-15135-C02-01)

ENTIDADES PARTICIPANTES: Dpto. Fisiología. Fac. Veterinaria. UCM
DURACIÓN: 3 años (2007-2010)
CUANTÍA: 53.000 euros
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Ángeles García Pascual

TÍTULO DEL PROYECTO: Neurotransmisión y neuromodulación en sistema nervioso central y periférico
ENTIDAD FINANCIADORA: Grupos UCM (modalidad A)(CCG07-UCM/SAL-2150)
ENTIDADES PARTICIPANTES: Dpto. Fisiología y Dpto. Bioquímica. UCM
DURACIÓN: 1 año (2007-2008)
CUANTÍA: 22.550 euros
PARTICIPACIÓN: Investigador colaborador
INVESTIGADOR RESPONSABLE: Magdalena Isabel Torres Molina (Dpto. Bioquímica)

TÍTULO DEL PROYECTO: Neurotransmisión y neuromodulación en sistema nervioso central y periférico.
ENTIDAD FINANCIADORA: UCM-Santander Hispano. (Ref: 920307)
ENTIDADES PARTICIPANTES: Departamentos de Bioquímica y Biología Molecular y de Fisiología de la Facultad de Veterinaria de la Universidad Complutense de Madrid.
DURACIÓN: 1 de enero de 2009 hasta 31 de diciembre de 2010.
CUANTÍA: 19.509,27 €
INVESTIGADOR RESPONSABLE: Dra. Magdalena Torres Molina
NÚMERO DE INVESTIGADORES PARTICIPANTES: 14

TÍTULO DEL PROYECTO: Neurotransmisión y neuromodulación en sistema nervioso central y periférico. Programa de Grupos de Investigación Santander-UCM (modalidad A – Consolidados) Convocatoria GR35/10-A
ENTIDAD FINANCIADORA: UCM-Santander Hispano. (Ref: 920307)
ENTIDADES PARTICIPANTES: Departamentos de Bioquímica y Biología Molecular y de Fisiología de la Facultad de Veterinaria de la Universidad Complutense de Madrid.
DURACIÓN: 01-01-2011 hasta 31-12- 2011.
CUANTÍA: 6.988,80 €
INVESTIGADOR RESPONSABLE: Dra. Magdalena Torres Molina

TÍTULO DEL PROYECTO: Tecnologías de evaluación y recuperación de emplazamientos contaminados.
ENTIDAD FINANCIADORA: CAM S2009/AMB-1478 Programa EIADES
ENTIDADES PARTICIPANTES: Grupo UCM y otros
DURACIÓN: 2009 hasta 2013.
INVESTIGADOR RESPONSABLE: Margarita Martín

TÍTULO DEL PROYECTO: Estabilización “in situ” de metales pesados en suelos mediante la aplicación de nanopartículas de Fe. Impacto de la tecnología sobre la funcionalidad del suelo.
ENTIDAD FINANCIADORA: MICINN CTM2010-20617-C02-01
ENTIDADES PARTICIPANTES: Grupo UCM

DURACIÓN: 2010 hasta 2013.
INVESTIGADOR RESPONSABLE: Margarita Martín

TÍTULO DEL PROYECTO: Aplicaciones tecnológicas de nanopartículas de hierro. Indicadores fenotípicos y genotípicos del impacto en el medio ambiente
ENTIDAD FINANCIADORA: Ministerio de Economía y Competitividad (CTM2013-46870-C2-1-P)
PLAZO DE EJECUCIÓN: 01/01/2014 AL 31/12/2016
PRESUPUESTO FINANCIABLE: 192.390,00 €
ORGANISMO: U.C.M. FACULTAD DE VETERINARIA (Grupo UCM)
INVESTIGADORA PRINCIPAL: MARGARITA MARTIN FERNANDEZ
TOTAL CONCEDIDO: 192.390,00 €
DURACION EN AÑOS: 3

TÍTULO DEL PROYECTO: Microplásticos como vectores de contaminantes emergentes en el ecosistema terrestre: biomarcadores de exposición e impacto ecotoxicológico.
ENTIDAD FINANCIADORA: Ministerio de Economía y Competitividad (CTM2017-82424-P)
PLAZO DE EJECUCIÓN: 01/01/2017 al 31/12/2021
DURACIÓN DEL PROYECTO: 4 años
INVESTIGADOR PRINCIPAL: Margarita Martín Fernández

2.6.- PUBLICACIONES CIENTÍFICAS

AUTORES: Costa, G. and Illera, M.
TÍTULO: “Some morphological relations in the heart of non-trained horses”
REVISTA: *Zbl. Vet. Med*., 31: 393-399 (1984)
Q3 (Veterinary Sciences)

AUTORES: Rivera, L., Plasschka, S., Costa, G. y García Sacristán, A.
TÍTULO: “Efectos de la $PGF_{2\alpha}$ sobre el músculo liso del tracto urinario”
REVISTA: *Med. Vet.*, 1: 603-607 (1984)

AUTORES: Castilla, C., Costa, G., Labadía, A., Torralba, A. y García-Sacristán, A.
TÍTULO: “El pastor catalán (Gos d´atura). I. Parámetros hematológicos y séricos”
REVISTA: *Med. Vet*., 1: 339-345 (1984)

AUTORES: Labadía, A., Costa, G., Castilla, C., Torralba, A. y García-Sacristán, A.
TÍTULO: “El pastor catalán (Gos d´atura). II. Concentraciones plasmáticas de progesterona y estrógenos durante el ciclo estral, gestación y parto”
REVISTA: *Med. Vet*., 1: 433-436 (1984)

AUTORES: García-Sacristán, A., Costa, G. and Labadía, A.
TÍTULO: “Sympathetic innervation of the urethral muscle in cattle”
REVISTA: *Zbl. Vet. Med*., 32: 185-189 (1985)
Q3 (Veterinary Sciences)

AUTORES: Costa, G., Illera, M. and García-Sacristán, A.
TÍTULO: “Electrocardiographical values in non-trained horses”
REVISTA: *Zbl. Med. Vet*., 32: 196-201 (1985)
Q3 (Veterinary Sciences)

AUTORES: Castilla, C., Vela, R., Costa, G., Labadía, A. y García-Sacristán, A.
TÍTULO: “Inervación alfa-adrenérgica en el uréter de perro”
REVISTA: *Actas Urol. Esp*., 9: 269-272 (1985)

AUTORES: Costa, G., Labadía, A. and García-Sacristán, A.
TÍTULO: “Effects of verapamil on equine urinary tract”
REVISTA: *Res. Vet. Sci*., 39: 320-323 (1985)
Q1 (Veterinary Sciences)

AUTORES: García-Sacristán, A., Castilla, C., Costa. G. and Labadía, A.
TÍTULO: “Alpha- and Beta-adrenoceptors in the female dog urethra”
REVISTA: *Rev. Esp. Fisiol*., 42: 245-250 (1986)
Q4 (Physiology)

AUTORES: García-Sacristán, A., Labadía, A. y Costa, G.
TÍTULO: “Influencia del sistema nervioso autónomo en la fisiología de la micción de los bóvidos”
REVISTA: *Med. Vet*., 2: 475-480 (1985)

AUTORES: Labadía, A., Sánchez, J., Costa, G., Rivera, L. y García-Sacristán, A.
TÍTULO: "Influencia de los receptores alfa-adrenérgicos en la acción de la dopamina sobre el tracto urinario de los équidos".
REVISTA: *Med. Vet*., 3: 447-452 (1986)

AUTORES: García-Pascual, A., Costa, G., Isla, M. and García-Sacristán, A.
TÍTULO: "Effects of verapamil and nifedipine on the smooth muscle of equine intrapulmonary arteries"
REVISTA: *J. Vet. Med*., 34: 305-313 (1987)
Q3 (Veterinary Sciences)

AUTORES: Benedito, S., Costa, G., Rivera, L. y García-Sacristán, A.
TÍTULO: "Caracterización de los receptores histaminérgicos en la vejiga urinaria de los óvidos"
REVISTA: *Rev. Esp. Fisiol*., 43: 323-328 (1987)
Q4 (Physiology)

AUTORES: Labadía, A., Rivera, L., Costa, G. and García-Sacristán, A.
TÍTULO: "Alpha- and beta-adrenergic receptors in the horse ureter"
REVISTA: *Rev. Esp. Fisiol*., 43: 412-426 (1987)
Q4 (Physiology)

AUTORES: Mikkelsen, E., Costa, G. and Nyborg, N.C.
TÍTULO: "Influence of endothelium on the response to calcium agonists, calcium, potassium and noradrenaline in rat aorta"
REVISTA: *Pharmacol. Toxicol*., 62: 22-28 (1988)
Q2 (Pharmacology and Toxicology)

AUTORES: Labadía, A., Rivera, L., Costa, G. and García-Sacristán, A.
TÍTULO: "Influence of the autonomic nervous system in the horse urinary bladder"
REVISTA: *Res. Vet. Sci.*, 44: 282-285 (1988)
Q1 (Veterinary Sciences)

AUTORES: Isla, M., Costa, G., García-Pascual, A., Triguero, D. and García-Sacristán, A.
TÍTULO: "Intrinsic spontaneous activity and beta-adrenoceptor-mediated tubal dilatation affect ovum transport in the oviduct of the cow"
REVISTA: *J. Reprod. Fert*., 85: 79-87 (1989)
Q2 (Reproductive Biology)

AUTORES: Sánchez, J., Costa, G., Benedito, S., Rivera, L. and García-Sacristán, A.
TÍTULO: "α_2-mediated effect of dopamine on the motility of the chicken esophagus"
REVISTA: *Life Sci*., 46: 121-126 (1990)
Q1 (Pharmacology and Pharmacy)

AUTORES: Benedito, S., Prieto, D., Rivera, L., Costa, G. and García-Sacristán, A.
TÍTULO: "Mechanisms implicated in the histamine response of the sheep ureterovesical junction"
REVISTA: *J. Urol*., 146: 184-187 (1991)

Q1 (Urology)

AUTORES: García- Pascual, A., Costa, G., García-Sacristán, A. and Andersson, K-E.
TÍTULO: "Relaxation of the sheep urethral smooth muscle induced by electrical stimulation of nerves: involvement of nitric oxide"
REVISTA: *Acta Physiol. Scand*., 141: 531-539 (1991)
Q2 (Physiology)

AUTORES: García-Pascual, A., Costa, G., Isla, M., Jimenez, E. and García-Sacristán, A.
TÍTULO: "Potassium-induced contractions in the lamb proximal urethra: involvement of norepinephrine and different calcium entry pathways"
REVISTA: *J. Pharmacol. Exp. Ther*., 256: 127-134 (1991)
Q1 (Pharmacology and Pharmacy)

AUTORES: García-Pascual, A., Costa, G., Isla, M. and García-Sacristán, A.
TÍTULO: "Characterization of alpha-adrenoceptors in the preprostatic urethra of sexually inmature male lambs"
REVISTA: *Eur. J. Pharmacol*., 203: 259-265 (1991)
Q1 (Pharmacology and Pharmacy)

AUTORES: García-Pascual, A., Costa, G., García-Sacristán, A. and Andersson, K-E.
TÍTULO: "Calcium dependence of the contractile activation of the isolated sheep urethra. I: Responses to electrical stimulation"
REVISTA: *Pharmacol. Toxicol*., 69: 263-269 (1991)
Q2 (Pharmacology and Toxicology)

AUTORES: García-Pascual, A., Costa, G., García-Sacristán, A. and Andersson, K-E.
TÍTULO: "Calcium dependence of the contractile activation of the isolated sheep urethra. II: Responses to exogenous noradrenaline"
REVISTA: *Pharmacol. Toxicol*., 69: 270-275 (1991)
Q2 (Pharmacology and Toxicology)

AUTORES: Costa, G., Isla, M., García-Pascual, A., Jiménez, E., Recio, P., Labadía, A. and García-Sacristán, A.
TÍTULO: "Characterization of postsynaptic alpha-adrenoceptors in the arteries supplying the oviduct"
REVISTA: *Br. J. Pharmacol*., 105: 381-387 (1992)
Q1 (Pharmacology and Toxicology)

AUTORES: García-Pascual, A., Labadía, A., Jimenez, E. y Costa, G.
TÍTULO: "Endothelium-dependent relaxation to acetylcholine in bovine oviductal arteries: mediation by nitric oxide and changes in apamin-sensitive K^+ conductance"
REVISTA: *Br. J. Pharmacol*., 115: 1221-1230 (1995)
Q1 (Pharmacology and Toxicology)

AUTORES: García-Pascual, A., Costa, G., Labadía, A., Persson, K. and Tiguero, D.
TÍTULO: "Characterization of nitric oxide syntase activity in sheep urinary tract: functional implications

REVISTA: *Br. J. Pharmacol*., 118: 905-914 (1996)
Q1 (Pharmacology and Toxicology)

AUTORES: Costa, G., Jiménez, E., Labadía, A. and García-Pascual, A.
TÍTULO: "Endothelial modulation of resting and stimulated vascular tone in the pig capsular testicular artery"
REVISTA: *Pflügers Arch.-Eur. J. Physiol*., 433: 65-70 (1996)
Q1 (Physiology)

AUTORES: García-Pascual, A., Labadía, A., Triguero, D. and Costa, G.
TÍTULO: "Local regulation of oviductal blood flow"
REVISTA: *Gen. Pharmacol*., 27: 1303-1310 (1996)
Q3 (Pharmacology and Toxicology)

AUTORES: Labadía, A., Costa, G., Jiménez, E., Triguero, D. and García-Pascual, A.
TÍTULO: "Endothelin receptor-mediated Ca^{2+} mobilization and contraction in bovine oviductal arteries: comparison with noradrenaline and potassium"
REVISTA: *Gen. Pharmacol*., 29: 611-619 (1997)
Q3 (Pharmacology and Toxicology)

AUTORES: Marínez, A.C., Novella, S., Raposo, R., Recio, P., Labadía, A., Costa, G., García-Sacristán, A. and Benedito, S.
TÍTULO: "Histamine receptors in isolated bovine oviductal arteries"
REVISTA: *Eur. J. Pharmacol*., 326: 163-173 (1997)
Q1 (Pharmacology and Toxicology)

AUTORES: García-Pascual, A., Costa, G., Labadía, A., Jiménez, E. and Triguero, D.
TÍTULO: "Differential mechanisms of urethral smooth muscle relaxation by several NO donors and nitric oxide"
REVISTA: *Naunyn Schmiedeberg´s Arch. Pharmacol*., 360: 80-91 (1999)
Q1 (Pharmacology and Toxicology)

AUTORES: Triguero, D., Costa, G., Labdía, A., Jiménez, E. and García-Pascual, A.
TÍTULO: "Spontaneous photo-relaxation of urethral smooth muscle from sheep, pig and rat and its relationship with nitrergic neurotransmission"
REVISTA: *J. Physiol*. (London), 522(3): 443-456 (2000)
Q1 (Physiology)

AUTORES: García-Pascual, A., Labadía, A., Costa, G. and Triguero, D.
TÍTULO: "Effects of superoxide anion generators and thiol modulators on nitrergic transmission and relaxation to exogenous nitric oxide in the sheep urethra"
REVISTA: *Br. J. Pharmacol*., 129: 53-62 (2000)
Q1 (Pharmacology and Toxicology)

AUTORES: Costa, G., Labadía, A., Triguero, D., Jiménez, E. and García-Pascual, A.
TÍTULO: "Nitrergic relaxation in urethral smooth muscle: Involvement of potassium channels and alternative redox forms of NO"
REVISTA: *Naunyn-Schmiedeberg´s Arch. Parmacol*., 364: 516-523 (2001)
Q1 (Pharmacology and Toxicology)

AUTORES: González-Soriano, J., Martín-Palacios, S., Rodríguez-Veiga, E., Triguero, D., Costa, G. and García-Pascual, A.
TÍTULO: "Nitric oxide synthase in the external urethral sphincter of the sheep: immunohistochemical and functional study"
REVISTA: *J. Urol*., 169: 1901-1906 (2003)
Q1 (Urology)

AUTORES: Triguero, D., González, M., García-Pascual, A. and Costa, G.
TÍTULO: "Atypical relaxation by scorpion venom in the lamb urethral smooth muscle involves both NO-dependent and –independent responses"
REVISTA: Naunyn-Schmiedeberg´s Arch. Parmacol., 368: 151-159 (2003)
Q1 (Pharmacology and Toxicology)

AUTORES: García-Pascual, A., Costa, G., Labadía, A., Jiménez, E., Triguero, D., Rodríguez-Veiga, E., and González-Soriano, J.
TÍTULO: "Partial nicotinic receptor blockade unmasks a modulatory role of nitric oxide on urethral striated neuromuscular transmission"
REVISTA: Nitric Oxide Biology and Chemistry, 13: 98-110 (2005)
Q3 (Biochemistry and Molecular Biology))

AUTORES: González, M., Costa, G, García-Pascual, A., and Triguero, D.
TÍTULO: "Cyclic GMP-gated channels are co-localized with a population of interstitial cells, but not with neuronal NOS, in the rat urethra"
REVISTA: *BMC Pharmacology*, 5 (sup 1): P21 (2005)

AUTORES: García-Pascual, A., Sancho, M., Costa, G, and Triguero, D.
TÍTULO: "Interstitial cells of Cajal in the urethra as effectors of the nitric oxide action through the cyclic GMP pathway"
REVISTA: *BMC Pharmacology*, 7 (sup 1): P23 (2007)

AUTORES: Triguero, D., González-Herrero, M., Costa, G., and García-Pascual, A.
TÍTULO: "Localization and thiol dependancy of endogenous nitrocompounds-mediating urethral photo-relaxation"
REVISTA: *Pflugers Arch.-Eur.J.Physiol*., 455: 745-756 (2008)
Q1 (Physiology)

AUTORES: García-Pascual, A., Sancho, M., Costa, G. and Triguero, D.
TÍTULO: "Interstitial cells of Cajal in the uretra are cGMP-mediated targets of nitrergic neurotransmission."
REVISTA: *Am. J. Physiol. Renal Physiol*., 295: F971-F983 (2008)
Q1 (Physiology)

AUTORES: Fajardo, C., Sacca, M.L., Martinez-Gomariz, Costa, G., Nande, M. and Martin, M.
TÍTULO: "Transcriptional and proteomic stress responses of a soil bacterium *Bacillus cereus* to nanosized zero-valent iron (nZVI) particles."
REVISTA: *Chemosphere*, 93: 1077-1083 (2013)
http://dx.doi.org/10.1016/j.chemosphere.2013.05.082
Q1 (Environmental Sciences)

AUTORES: Sacca, ML., Fajardo, C., Costa, G., Lobo, C., Nande, M., Martín, M.
TÍTULO: "Integrating classical and molecular approaches to evaluate nano sized zero valent iron (nZVI) impact on soil organisms".
REVISTA: *Chemosphere*, 104: 1077-1083 (2014)
http://dx.doi.org/10.1016/j.chemosphere.2013.11.013
Q1 (Environmental Sciences)

AUTORES: Fajardo, C., Sacca, ML., Costa, G., Nande, M., Martín, M.
TÍTULO: "Impact of Ag and Al2O3 nanoparticles on soil organisms: in vitro and soil experiments".
REVISTA: *Sci.Total Environ*., 473–474: 254–261 (2014).
http://dx.doi.org/10.1016/j.scitotenv.2013.12.043
Q1 (Environmental Sciences)

AUTORES: Sacca, ML., Fajardo, C., Martinez-Gomariz, M., Costa, G., Nande, M., Martín, M.
TÍTULO: "Molecular stress responses to Nano-sized zero-valent iron (nZVI) particles in the soil bacterium Pseudomonas stutzeri".
REVISTA: *PLos ONE*: e89677 (2014)
doi:10.1371/journal.pone.0089677
Q1 (Multidisciplinary Sciences)

AUTORES: Gil-Díaz, M., Ortiz, L.T., Costa, G., Alonso, J., Rodríguez-Membibre, M.L., Sánchez-Fortún, S., Pérez-Sanz, A., Martín, M and Lobo, M.C.
TÍTULO: Immobilization and Leaching of Pb and Zn in an Acidic Soil Treated with Zerovalent Iron Nanoparticles (nZVI): Physicochemical and Toxicological Analysis of Leachates
REVISTA: *Water Air Soil Pollut*., 225:1990 (2014)
DOI 10.1007/s11270-014-1990-1
Q3 (Environmental Sciences)

AUTORES: Fajardo C., Gil-Díaz M., Costa G., Alonso J., Guerrero A.M., Nande M., Lobo M.C., Martín M.
TÍTULO: Residual impact of aged nZVI on heavy metal-polluted soils
REVISTA: *Sci. Total Environ*., 535: 79–84 (2015)
DOI: http://dx.doi.org/10.1016/j.scitotenv.2015.03.067
Q1 (Environmental Sciences)

AUTORES: Fajardo C., Costa G., Nande M., Martin M.
TÍTULO: Three Functional Biomarkers for Monitoring the Nanoscale Zero-Valent Iron (nZVI)-Induced Molecular Signature on Soil Organisms
REVISTA: *Water Air Soil Pollut*., 227: 201-209 (2016)
DOI 10.1007/s11270-016-2901-4
Q3 (Environmental Sciences)

AUTORES: Fajardo C., Costa G., Ortiz, L.T., Nande M., Rodríguez-Membibre, M.L., Martin, M., Sánchez-Fortún, S.
TÍTULO: Potential Ecological Risk induced by AgI Cloud Seeding on Soil and Freshwater Biota
REVISTA: *Ecotoxicology and Environmental Safety,* 133: 433–441 (2016)

DOI 10.1016/j.ecoenv.2016.06.028
Q1 (Environmental Sciences)

AUTORES: Fajardo C., Costa G., Nande M., Botías P., García-Cantalejo, J., Martín M.
TÍTULO: Pb, Cd, and Zn soil contamination: Monitoring functional and structural impacts on the microbiome
REVISTA: Applied Soil Ecology, 135: 56–64 (2019)
https://doi.org/10.1016/j.apsoil.2018.10.022
Q1 (Soil Science)

AUTORES: Fajardo C., Garcıa-Cantalejo J., Botıas P., Costa G., Nande M., Martin M.
TÍTULO: New insights into the impact of nZVI on soil microbial biodiversity and functionality.
REVISTA: Journal of Environmental Science and Health, Part A (2019)
https://doi.org/10.1080/10934529.2018.1535159
Q3 (Environmental Sciences)

AUTORES: Fajardo C., Costa G., Nande, M., Martín C., Martín, M., Sánchez-Fortún S.
TÍTULO: Heavy metals immobilization capability of two iron-based nanoparticles (nZVI and Fe3O4): Soil and freshwater bioassays to assess ecotoxicological impact
REVISTA: Science of the Total Environment 656: 421–432 (2019)
https://doi.org/10.1016/j.scitotenv.2018.11.323
Q1 (Environmental Sciences)

2.7.- ESTANCIAS DE INVESTIGACIÓN

CENTRO: Pharmacology Department. University of Aarhus
LOCALIDAD: Aarhus
PAIS: Dinamarca
Año: 1986-1987
DURACIÓN: 6 meses

CENTRO: Pharmacology Department. University of Aarhus
LOCALIDAD: Aarhus
PAIS: Dinamarca
Año: 1987
DURACIÓN: 2 meses

2.9.- CONGRESOS

AUTORES: Illera, M., García Sacristán, A., Costa, G., Domínguez, M.
TÍTULO: Correlations between size and electric activity of the horse heart.
TIPO DE PARTICIPACIÓN: Comunicación oral
CONGRESO: XXI World Veterinary Congress
LUGAR: Moscú
AÑO: 1979

AUTORES: Costa, G., Illera, M., García Sacristán, A.
TÍTULO: Valoración de la actividad eléctrica del corazón del caballo.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XIX Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Málaga
AÑO: 1982

AUTORES: Illera, M., Costa, G., García Sacristán, A.
TÍTULO: Electrofisiología cardiaca en el caballo y su correlación morfológica
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XIX Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Málaga
AÑO: 1982

AUTORES: Costa, G., Illera, M., García Sacristán, A.
TÍTULO: Valores y correlaciones electrocardiográficas en caballos no sometidos a entrenamiento
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XX Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Murcia
AÑO: 1984

AUTORES: Plaschka, S., Rivera, L., Costa, G., García Sacristán, A.
TÍTULO: Efectos del luprostiol en el músculo liso del tracto urinario
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XX Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Murcia
AÑO: 1984

AUTORES: Castilla, C., Costa, G., Labadía, L., García Sacristán, A.
TÍTULO: Participación alfa-adrenérgica en la dinámica uretral del perro
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: VIII Reunión Nacional de la Asociación Española de Farmacólogos
LUGAR: Jaca
AÑO: 1984

AUTORES: Costa, G., Labadía, L., Castilla, C., García Sacristán, A.
TÍTULO: Efectos del verapamil sobre la vejiga urinaria y la uretra del caballo
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: VIII Reunión Nacional de la Asociación Española de Farmacólogos
LUGAR: Jaca
AÑO: 1984

AUTORES: Labadía, L., Costa, G., Sánchez, J., García Sacristán, A.
TÍTULO: α and β adrenoceptors in the urinary bladder of the horse
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: European Association for Veterinary Pharmacology & Toxicology
LUGAR: Gante (Bélgica)
AÑO: 1985

AUTORES: Costa, G., Labadía, L., Agustí, B., García Sacristán, A.
TÍTULO: Effects of calcium antagonists in isolated smooth muscle of the horse urinary tract
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: European Association for Veterinary Pharmacology & Toxicology
LUGAR: Gante (Bélgica)
AÑO: 1985

AUTORES: Costa, G., Plaschka, S., Rivera, L., García Sacristán, A.
TÍTULO: Parámetros hematológicos y séricos en la yegua de raza española durante la gestación
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXI Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Oviedo
AÑO: 1985

AUTORES: Labadía, A., Costa, G., Sánchez, J., García Sacristán, A.
TÍTULO: Alfa-adrenoceptores en el uréter del caballo
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXI Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Oviedo
AÑO: 1985

AUTORES: García-Pascual, A., Isla, M., Costa, G., García Sacristán, A.
TÍTULO: Efectos de verapamil y nifedipina sobre las respuestas contráctiles de arterias intrapulmonares equinas.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXI Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Oviedo
AÑO: 1985

AUTORES: Isla, M., García-Pascual, A., Costa, G., García Sacristán, A.
TÍTULO: Receptores adrenérgicos beta-inhibitorios en el oviducto de los bóvidos.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXI Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Oviedo
AÑO: 1985

AUTORES: García-Pascual, A., Isla, M., Costa, G., García Sacristán, A.
TÍTULO: Efecto de verapamil, nifedipina y nitroprusiato sódico en el músculo liso uretral de los óvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XI Reunión Nacional de la Asociación Española de Farmacología.
LUGAR: Santander
AÑO: 1986
REVISTA: Revista de Farmacología Clínica y Experimental, 3 (3): 252 (1986)

AUTORES: Labadía, A., Prieto, M.D., Costa, G., García Sacristán, A.
TÍTULO: Beta-adrenoceptores inhibitorios en la porción caudal del uréter del caballo.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XI Reunión Nacional de la Asociación Española de Farmacología.
LUGAR: Santander
AÑO: 1986
REVISTA: Revista de Farmacología Clínica y Experimental, 3 (3): 152 (1986)

AUTORES: Benedito, S., Rivera, L., Costa, G., García Sacristán, A.
TÍTULO: Receptores histaminérgicos en el músculo liso de la vejiga urinaria
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XI Reunión Nacional de la Asociación Española de Farmacología.
LUGAR: Santander
AÑO: 1986
REVISTA: Revista de Farmacología Clínica y Experimental, 3 (3): 152 (1986)

AUTORES: Isla, M., García-Pascual, A., Costa, G., García Sacristán, A.
TÍTULO: Influencia de los receptores adrenérgicos en la motilidad del oviducto de los bóvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XI Reunión Nacional de la Asociación Española de Farmacología.
LUGAR: Santander
AÑO: 1986
REVISTA: Revista de Farmacología Clínica y Experimental, 3 (3): 150 (1986)

AUTORES: Rivera, L., Benedito, S., Costa, G., García Sacristán, A.
TÍTULO: Acción de atropina, indometacina y Ca2+ en las contracciones inducidas por ATP en el músculo detrusor ovino.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XI Reunión Nacional de la Asociación Española de Farmacología.
LUGAR: Santander
AÑO: 1986

REVISTA: Revista de Farmacología Clínica y Experimental, 3 (3): 151 (1986)

AUTORES: Plaschka, S., Del Pozo, R., Costa, G., García Sacristán, A.
TÍTULO: Parámetros hematológicos, bioquímicos y hormonales durante el parto de la yegua de raza española.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Extremadura
AÑO: 1987

AUTORES: Costa, G., Mikkelsen, E.O., Nyborg, N.C.B.
TÍTULO: Efecto de noradrenalina, potasio y BAY K 8644 en la aorta asilada de rata.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Extremadura
AÑO: 1987

AUTORES: Benedito, S., Costa, G., Sánchez, J., García-Sacristán, A.
TÍTULO: Receptores histaminérgicos en la unión urétero-vesical de los óvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Extremadura
AÑO: 1987

AUTORES: García-Pascual, A., Costa, G., Isla, M., García-Sacristán, A.
TÍTULO: Estudio de los depósitos de calcio en la uretra de los óvidos.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Extremadura
AÑO: 1987

AUTORES: García-Pascual, A., Costa, G., Prieto, D., García-Sacristán, A.
TÍTULO: Efecto de las variaciones del calcio extracelular en la actividad contráctil del músculo liso uretral de los óvidos.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Extremadura
AÑO: 1987

AUTORES: Isla, M., García-Pascual, A., Costa, G., García-Sacristán, A.
TÍTULO: Participación de los receptores alfa 2 adrenérgicos y M2 muscarínicos en la dinámica del oviducto de los bóvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.

LUGAR: Extremadura
AÑO: 1987

AUTORES: Mikkelsen, E.O., Costa., G., Nyborg, N.C.B.
TÍTULO: Influence of endothelium on Ca-agonist-induced responses in rat aorta
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: X International Congress of Pharmacology
LUGAR: Sydney (Australia)
AÑO: 1987

AUTORES: Benedito, S., Costa, G., Rivera, L., García-Sacristán, A.
TÍTULO: Acción de la histamina en la vejiga urinaria de los óvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XV World Buiatric Congress
LUGAR: Palma de Mallorca
AÑO: 1988

AUTORES: Isla, M., García-Pascual, A., Costa, G., García-Sacristán, A.
TÍTULO: El sistema nerviosa simpático en la función del oviducto de la vaca.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XV World Buiatric Congress
LUGAR: Palma de Mallorca
AÑO: 1988

AUTORES: Benedito, S., Costa, G., Rivera, L., Prieto, D., García-Sacristán, A.
TÍTULO: Papel del Ca^{2+} en la contracción inducida por histamina en la vejiga urinaria de los óvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Tenerife
AÑO: 1988
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 414 (1): S32 (1989)

AUTORES: Isla, M., García-Pascual, A., Costa, G., García-Sacristán, A.
TÍTULO: Actividad espontánea y reactividad del músculo liso oviductal de la vaca.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Tenerife
AÑO: 1988
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 414 (1): S32 (1989)

AUTORES: Costa, G., García-Pascual, A., Isla, M., García-Sacristán, A.
TÍTULO: Fuentes de calcio en la respuesta bifásica del potasio en el músculo liso de la uretra ovina.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Tenerife

AÑO: 1988
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 414 (1): S32 (1989)

AUTORES: Costa, G., García-Pascual, A., Isla, M., García-Sacristán, A.
TÍTULO: Fuentes de calcio en la respuesta bifásica del potasio en el músculo liso de la uretra ovina.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Tenerife
AÑO: 1988
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 414 (1): S32 (1989)

AUTORES: García-Pascual, A., Costa, G., Isla, M., García-Sacristán, A.
TÍTULO: Participación de la noradrenalina en la contracción inducida por potasio en la uretra ovina.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Tenerife
AÑO: 1988
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 414 (1): S32 (1989)

AUTORES: Costa, G., García-Pascual, A., Isla, M., Benedito, S., García-Sacristán, A.
TÍTULO: Método experimental para el estudio de la reactividad mecánica de vasos de resistencia *in vitro*.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: II Congreso de la Sociedad Española de Experimentación Animal
LUGAR: León
AÑO: 1989
PUBLICACIÓN: Rev. Toxicol., 6 (2) (1989).

AUTORES: Costa, G., Isla, M., García-Pascual, A., Jiménez, E., García-Sacristán, A.
TÍTULO: Pharmacological characterization of α-adrenoceptors in isolated small arteries from the oviduct isthmus of heifers.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XI International Congress of Pharmacology
LUGAR: Amsterdam
AÑO: 1990
PUBLICACIÓN: Eur. J. Pharmacol., 183(3): 813 (1990)

AUTORES: Costa, G., Isla, M., García-Pascual, A., Jiménez, E., Benedito, S., García-Sacristán, A.
TÍTULO: α-Adrenoceptores en arterias oviductales bovinas
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIV Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Madrid
AÑO: 1990
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., (1991): R153-R196

AUTORES: Benedito, S., Prieto, D., García-Pascual, A., Rivera, L., Hernández, M., Costa, G., García-Sacristán, A.
TÍTULO: Efecto presináptico de los antagonistas histaminérgicos en la vejiga urinaria de los óvidos
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIV Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Madrid
AÑO: 1990
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., (1991): R153-R196

AUTORES: Costa, G., Isla, M., García-Pascual, A., Jiménez, E., Benedito, S., García-Sacristán, A.
TÍTULO: Norepinephrine-induced responses in oviductal arteries of the heifer.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXIV World Veterinary Congress
LUGAR: Rio de Janeiro
AÑO: 1991

AUTORES: Costa, G., García-Pascual, A., Recio, P., Labadía, A., Jiménez, E., Benedito, S., García-Sacristán, A.
TÍTULO: Modulación endotelial de la respuesta de endotelina (ET-1) en arterias oviductales.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXV Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Córdoba
AÑO: 1992

AUTORES: García-Pascual, A., Costa, G., García-Sacristán, A., Andersson, K-E.,
TÍTULO: Participación del óxido nítrico (NO) en la neurotransmisón inhibitoria no-adrenérgica, no-colinérgica (NANC) del músculo liso de la uretra.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXV Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas.
LUGAR: Córdoba
AÑO: 1992

AUTORES: Martínez, C., Costa, G., Labadía, A., Recio, P., Novella, S., García-Sacristán, A., Benedito, S.
TÍTULO: Role of endothelium in histamine-induced relaxation of isolated oviductal small arteries.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXVI Congress of the Spanish Society of Physiological Sciences and 1st Meeting of Mediterranean Physiologists.
LUGAR: Palma de Mallorca
AÑO: 1994
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 427 (1-2) (Suppl) R1-R56 (1994)

AUTORES: Martínez, C., Costa, G., Labadía, A., Recio, P., Jiménez, J., García-Sacristán, A., Benedito, S.
TÍTULO: Participation of H_1 and H_3 receptors in histaminergic relaxation of arteries supplying the oviduct
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXVI Congress of the Spanish Society of Physiological Sciences and 1st Meeting of Mediterranean Physiologists.
LUGAR: Palma de Mallorca
AÑO: 1994
PUBLICACIÓN: Pflügers Arch. Eur. J. Physiol., 427 (1-2) (Suppl) R1-R56 (1994)

AUTORES: García Pascual, A., Labadía, A., Costa, G., Triguero, D.
TÍTULO: Characterization of nitric oxide synthase in the lower urinary tract
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XXVII Congress of the Spanish Society of Physiological Sciences in conjunction with the Physiological Society
LUGAR: Salamanca
AÑO: 1995

AUTORES: García Pascual, A., Labadía, A., Jiménez, E., Costa, G.
TÍTULO: Role of nitric oxide and apamin-sensitive K+ conductance in endothelium-dependent relaxation to acetylcholine in oviductal arteries
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: XIX National Meeting of the Spanish Society of Pharmacology
LUGAR: Madrid
AÑO: 1995
PUBLICACIÓN: Method. Find. Exp. Clin., 17(Suppl. A): 75 (1995)

AUTORES: García Pascual, A., Costa, G., Labadía, A., Jiménez, E., Triguero, D.
TÍTULO: Cyclic GMP-dependent and –independent mechanisms in the relaxation of urethral smooth muscle induced by nitrocompounds: Comparison with nitric oxide.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: Third International Conference Biochemistry and Molecular Biology of Nitric Oxide
LUGAR: Los Angeles (USA)
AÑO: 1998
PUBLICACIÓN: Nitric Oxide Biology and Chemistry, 2(2): 134 (1998)

AUTORES: Triguero, D., Labadía, A., Costa, G., Jiménez, E., García Pascual, A.
TÍTULO: Nitric oxide reléase from nitrocompounds do not correlate with relaxation of urethral smooth mscle
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: Third International Conference Biochemistry and Molecular Biology of Nitric Oxide
LUGAR: Los Angeles (USA)
AÑO: 1998
PUBLICACIÓN: Nitric Oxide Biology and Chemistry, 2(2): 135 (1998)

AUTORES: Martínez-Calatrava, M.J., Costa, G., Triguero, D., García Pascual, A.

TÍTULO: Presinaptic modulation by nitric oxide of the striated urethral sphincter activity.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: Neurochemistry Winter Conference
LUGAR: Sölden, Ötzal (Austria)
AÑO: 2001

AUTORES: Triguero, D., Costa, G., González, M., Labadía, A., García-Pascual, A.
TÍTULO: Involvement of the nitric oxide-cGMP pathway in the relaxation induced by scorpion venom in the sheep urethra.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: FENS Forum 2002
LUGAR: París
AÑO: 2002

AUTORES: Garcia-Pascual A., Martín-Palacios S., Costa G., Labadía A., Triguero D.
TÍTULO: Modulatory role of nitric oxide on isometric contractile activity of the striated external urethral sphincter.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: FENS Forum 2002
LUGAR: París
AÑO: 2002

AUTORES: Triguero, D., Costa, G., González, M., Labadía, A., García-Pascual, A.
TÍTULO: Scorpion venom induced relaxation reveals the involvement of cyclic nucleotides-gated channels in sheep urethra.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 2nd International Congress of Nitric Oxide
LUGAR: Praga
AÑO: 2002
PUBLICACIÓN: Nitric Oxide Biology and Chemistry, 6(4): 479-480 (2002)

AUTORES: García-Pascual, A., Martín-Palacios S., Costa, G., Labadía, A., Triguero, D.
TÍTULO: Nitric oxide modulates neuromuscular transmission of the external urethral sphincter.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 2nd International Congress of Nitric Oxide
LUGAR: Praga
AÑO: 2002
PUBLICACIÓN: Nitric Oxide Biology and Chemistry, 6(4): 391 (2002)

AUTORES: González-Soriano, J., Rodríguez-Veiga, E., Cigüenza, P., Costa, G., Triguero, D., García-Pascual, A.
TÍTULO: Mediación por células intersticiales de la neurotransmisión nitrérgica en el músculo liso uretral
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: X Congreso de la Sociedad Española de Neurociencia.
LUGAR: Lérida
AÑO: 2003

PUBLICACIÓN: Revista de Neurología, 37: 1140 (2003)

AUTORES: García-Pascual, A., Costa, G., Labadía, A., Jiménez, E., Triguero, D., González-Herreros, M., Rodríguez-Veiga, E., González-Soriano, J.
TÍTULO: Evidencia del efecto modulador del óxido nítrico sobre la unión neuromuscular del esfínter uretral externo en condiciones de bloqueo nicotínico parcial.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: X Congreso de la Sociedad Española de Neurociencia.
LUGAR: Lérida
AÑO: 2003
PUBLICACIÓN: Revista de Neurología, 37: 1095 (2003)

AUTORES: González-Soriano, J., Rodríguez-Veiga, E., Cigüenza, P., Costa, G., Triguero, D., García-Pascual, A.
TÍTULO: Identification of the cellular targets of nitric oxide in sheep urethral smooth muscle by cGMP immunoreactivity
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 33th Annual Meeting of the Society for Neuroscience
LUGAR: Nueva Orleans (USA)
AÑO: 2003

AUTORES: González-Herreros, M., Costa, G., García-Pascual, A., Triguero, D.
TÍTULO: Cyclic GMP-gated channels are co-localized with a population of Interstitial cells, but not with neuronal NOS, in the rat urethra
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 2nd International Conference of cGMP Generators, Effectors and Therapeutic Implications
LUGAR: Postdam (Alemania)
AÑO: 2005
PUBLICACIÓN: BMC Pharmacology, 5 (Suppl 1): P21 (2005)

AUTORES: García-Pascual, A., Sancho, M., Costa, G., Triguero, D.
TÍTULO: Interstitial cells of Cajal in the urethra as effectors of the nitric oxide action through the cyclic GMP pathway
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 3th International Conference of cGMP Generators, Effectors and Therapeutic Implications
LUGAR: Dresden (Alemania)
AÑO: 2007
PUBLICACIÓN: BMC Pharmacology, 7 (Suppl 1): P23 (2007)

AUTORES: Saccà, M.L., Fajardo, C., Ortiz, L.T., Ridríguez-Membribe, M.L., Costa, G., Nande, M., Lobo, C., Martín, M.
TÍTULO: Could bacteria be considered as toxicological endpoints? Molecular responses to the presence of nanoparticles.
TIPO DE PARTICIPACIÓN: Comunicación oral
CONGRESO: The International Conferences: Contaminated Site Management in Europe (CSME); Sustainable Approaches to Remediation of Contaminated Land in Europe (SARCLE).

LUGAR: Nancy (Francia)
AÑO: 2012

AUTORES: Ortiz, L.T., Sánchez-Fortún, S., Rodríguez-Membribe, M.L., Costa, G., Lobo, C., Martín, M.
TÍTULO: Toxicity of Fe nanoparticles as an immobilization strategy on heavy metal contaminated soils
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: The International Conferences: Contaminated Site Management in Europe (CSME); Sustainable Approaches to Remediation of Contaminated Land in Europe (SARCLE).
LUGAR: Nancy (Francia)
AÑO: 2012

AUTORES: Costa, G., Casasus, L., Ortiz, L.T., Rodríguez-Membribe, M.L., Nande, M., Martín, M.
TÍTULO: A mathematical model and ecotoxicity reflecting the fate of nanoscale zero-valent iron (nZVI) particles in soil complex media.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC Europe).
LUGAR: Glasgow
AÑO: 2013

AUTORES: Saccà, M.L., Fajardo, C., Costa, G., Lobo, C., Nande, M., Martín, M.
TÍTULO: Integrating classical and molecular approaches to evaluate the impact of nanosized zero-valent iron (nZVI) on soil organisms.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: International Workshop. Nanoparticles in soil and waters: Fate, Transport and Effects
LUGAR: Landau (Alemania)
AÑO: 2014

AUTORES: Gil-Díaz, M., Ortiz, L.T., Costa, G., Alonso, J., Rodríguez-Membribe, M.L., Sánchez-Fortún, S., Pérez-Sanz, A., Martín, M., Lobo, C.
TÍTULO: Application of zero-valent iron nanoparticles (nZVI) to metal immobilization in an acidic soil: ecotoxicological impact.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: International Workshop. Nanoparticles in soil and waters: Fate, Transport and Effects
LUGAR: Landau (Alemania)
AÑO: 2014

AUTORES: Sánchez-Fortún, S., Costa, G., Mengs, G., Nande, M., Martín, M.
TÍTULO: Ecotoxicological endpoints to assess the impact of nanomaterials on soil and water biota.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 26th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC Europe).
LUGAR: Nantes (Francia)

AÑO: 2016

AUTORES: Fajardo, C., Costa, G., Sánchez-Fortún, S., Nande, M., Martín, M.
TÍTULO: Structural and functional biomarkers to assess nanomaterials-associated environmental risk.
TIPO DE PARTICIPACIÓN: Poster
CONGRESO: 26th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC Europe).
LUGAR: Nantes (Francia)
AÑO: 2016

2.8.- DIRECCIÓN DE TESIS DOCTORALES

TÍTULO: Estudio de los mecanismos de activación muscular y la participación del calcio en el control uretral de la micción.
DOCTORANDO: Ángeles GARCÍA PASCUAL
UNIVERSIDAD: Complutense de Madrid
FACULTAD: Veterinaria
AÑO: 1989
CALIFICACIÓN: Apto Cum laude (Premio Extraordinario)

TÍTULO: Fotorrelajación uretral espontánea: Papel de un nitrocompuesto endógeno en la neurotransmisión nitrérgica uretral.
DOCTORANDO: Marta González Herrero
UNIVERSIDAD: Complutense de Madrid
FACULTAD: Veterinaria
AÑO: 2007
CALIFICACION: Sobresaliente Cum Laude

2.9.- DIRECCIÓN DE DIPLOMA DE ESTUDIOS AVANZADOS (DEA)

TÍTULO: Canales iónicos Modulados por óxido nítrico
AUTORA: Marta González Herrero
CALIFICACIÓN: Sobresaliente
FECHA: Julio 2002
PROGRAMA DE DOCTORADO: Ciencias Veterinarias (Certificado con Mención de Calidad)

2.10.- PERTENENCIA A SOCIEDADES CIENTÍFICAS

Miembro de la Sociedad Española de Ciencias Fisiológicas

2.11.- OTROS MÉRITOS RELACIONADOS CON A ACTIVIDAD CIENTÍFICA

Cursos recibidos

ACTIVIDAD: A course in the use of myographs to determine structure and function of isolated small arteries.
ORGANIZADOR: Danish Biomembrane Research Centre. Department of Pharmacology. Aarhus University.
LUGAR: Aarhus (Dinamarca)
FECHA: 14-18 Noviembre 1994

Manejo de animales de experimentación

Homologación de Categoría C (Real Decreto de protección de animales utilizados para la experimentación y otros fines científicos) otorgada por la Comunidad de Madrid el día 20 de Junio de 2006.

Participación en tribunales de tesis doctorales

Universidad Complutense: 8
Universidad Autónoma de Madrid: 4
Universidad de Santiago (Campus de Lugo): 1

Newsletter

AUTORES: Costa, G.; Illera, M.
TÍTULO: Some morphological parameters and its electrocardiographical relations in the heart of the horse.
REVISTA: Newsletter European Society of Veterinary Cardiology, 2: 18 (1984)

3.- ACTIVIDAD DOCENTE

3.1.- TRAMOS DOCENTES CONCEDIDOS (QUINQUENIOS)

6 (15/03/1979 –14/03/1984; 15/03/1984 –14/03/1989; 15/03/1989 –14/03/1994; 15/03/1994 –14/03/1999; 15/03/1999 –14/03/2004; 15/03/2004 –14/03/2009).

3.2.- DEDICACIÓN DOCENTE

3.2.1.- ASIGNATURAS DE LICENCIATURA O GRADO

FISIOLOGÍA ANIMAL (Asignatura troncal de 2º Curso de la Licenciatura de Veterinaria)

PUESTOS DOCENTES Y CURSOS ACADÉMICOS

- Profesor Encargado de Curso Nivel D-1: 1978-1979 (15/03/1979-30/09/1979); 1979-1980 (01/10/1979-31/10/1979) (180 horas anuales de Docencia teórico-práctica).
- Profesor Ayudante: 1979-1980 (01/11/1979-31/10/1980); 1980-1981; 1981-1982; 1982-1983 (01/10/1982-28/02/1983) (180 horas anuales de Docencia teórico-práctica)
- Profesor Adjunto Interino: 1982-1983 (01/03/1983-30/09/1983); 1983-1984; 1984-1985; 1985-1986 (01/10/1985-16/12/1985) (240 horas anuales de Docencia teórico-práctica).
- Profesor Titular: 1986-1986 (17/12/1985-30/09/1986); 1986-1987; 1987-1988; 1988-1989; 1989-1990, 1990-1991; 1991-1992; 1992-1993; 1993-1994; 1994-1995; 1995-1996; 1996-1997; 1997-1998; 1998-1999; 1999-2000; 2001-2002 (240 horas anuales de Docencia teórico-práctica).
- Profesor Titular: 2002-2003 (18,35); 2003-2004 (18,45); 2004-2005 (18,35); 2005-2006 (17,65); 2006-2007 (18,50); 2007-2008 (19); 2009-2010 (19) (los créditos de Docencia teórico-práctica figuran entre paréntesis)

FISIOLOGÍA VETERINARIA I (1er Curso, 2º semestre, del Grado de Veterinaria)

- Profesor Titular: 2015-2016 (142 horas de Docencia teórico-práctica).

FISIOLOGÍA VETERINARIA II (2º Curso, 1er semestre, del Grado de Veterinaria)

- Profesor Titular: 2010-2011 hasta 2014-20115 (ambos inclusive) (142 horas de Docencia teórico-práctica).

ENDOCRINOLOGÍA I (Asignatura de Libre Elección de la Licenciatura de Veterinaria)

- Profesor Titular: 2002-2003; 2003-2004; 2004-2005; 2005-2006; 2006-2007 y 2007-2008 (20 horas anuales de Docencia teórico-práctica)

3.2.1.- ASIGNATURAS DE MASTER O DOCTORADO

ANIMALES DE EXPERIMENTACIÓN, BASES FISIOLÓGICAS, REPRODUCCIÓN, MANEJO Y NORMATIVAS ÉTICAS (Programa de Doctorado de Endocrinología molecular, celular y de la reproducción. Universidad de Santiago de Compostela)
Tema: Fisiología digestiva de los animales de experimentación. Mayo 1987

BASES DE LA INVESTIGACIÓN EN VETERINARIA Y CIENCIAS AFINES (Master en Investigación en Veterinaria y Ciencias Afines). 0,5 créditos de docencia teórica durante los cursos académicos: 2010-2012; 2011-2012; 2012-2013.

3.2.2.- TÍTULOS PROPIOS

Profesor del Título Propio de la UCM de "EXPERTO EN BASES DE FISIOTERAPIA Y REHABILITACIÓN ANIMAL" durante los cursos 2014-2015 y 2015-2016.

3.3.- PUBLICACIONES DOCENTES

MONOGRAFÍAS

AUTORES: Costa, G. y Benedito, S.
TÍTULO: "Función mecánica del estómago de los rumiantes". En: Fisiología del estómago de los rumiantes.
REVISTA: Bovis, 15: 13-27 (1987)

AUTORES: Costa, G., Rivera, L. y Sánchez, J.
TÍTULO: "Regulación de la actividad motora del estómago de los rumiantes". En: Fisiología del estómago de los rumiantes.
REVISTA: Bovis, 15: 29-39 (1987)

AUTORES: Costa, G. e Isla, M.
TÍTULO: "Rumia y eructación". En: Fisiología del estómago de los rumiantes.
REVISTA: Bovis, 15: 41-54 (1987)

AUTORES: Costa, G., Recio, P. y Triguero, D.

TÍTULO: “Mecanismos maternales endocrinos”. En: Fisiología y control del parto en los rumiantes.
REVISTA: Bovis, 20: 13-25 (1988)

AUTORES: Benedito, S., García-Pascual, A., Costa, G. y Labadía, A.
TÍTULO: “Fisiopatología del parto”. En: Fisiología y control del parto en los rumiantes.
REVISTA: Bovis, 20: 77-85 (1988)

LIBROS

Capítulos

AUTOR: Costa, G.
TÍTULO: Contracción del músculo esquelético.
LIBRO: *Fisiología Veterinaria*. Editado por: García-Sacristán, A., Castejón, F., De La Cruz, L., González, J., Murillo, M.D. y Salido, G.
EDITORIAL: Interamericana McGraw-Hill: Madrid. pp, 41-53 (1995).

AUTOR: Costa, G.
TÍTULO: Contracción de los músculos liso y cardíaco.
LIBRO: *Fisiología Veterinaria.* Editado por: García-Sacristán, A., Castejón, F., De La Cruz, L., González, J., Murillo, M.D. y Salido, G.
EDITORIAL: Interamericana McGraw-Hill: Madrid. pp, 54-65 (1995).

Traducción

AUTORES: Lorenzo, P.L., Arias, M., Blanco, M.M., Costa, G., García, R., García-Pascual, A., González, A., Labadía, A., Revuelta, L., Triguero, D. y García-Rebollar, P.
TÍTULO: Fisiología Veterinaria (Cuarta edición). Ed. Elsevier-Saunders (2009) (ISBN edición española 978-84-8086-391-9). Es la versión española de la 4ª edición de la obra original en inglés Textbook of Veterinary Physiology (2007) (ISNB 978-1-4160-3610-4)

VÍDEOS

AUTORES: Lorenzo, P., Costa, G., García-Pascual, A., Gonzalez, A., Illera, J., Illera, J.C., Labadía, A., Martínez, M., Millán, P., Picazo, R., Revuelta, L., Silván, G., Triguero, D.
TÍTULO: Registro Experimental de la Presión Arterial.
SOPORTE: Vídeo-CDrom; ISBN: 84-607-9897-6 (2003)

AUTORES: Lorenzo, P., Costa, G., García-Pascual, A., Gonzalez, A., Illera, J., Illera, J.C., Labadía, A., Martínez, M., Millán, P., Picazo, R., Revuelta, L., Silván, G., Triguero, D.
TÍTULO: Screening de rata y ratón.
SOPORTE: Vídeo-CDrom; ISBN: 84-607-9898-4 (2003)

3.4.- PROYECTOS DE INNOVACIÓN DOCENTE

TÍTULO: Desarrollo de métodos audiovisuales e informáticos que reduzcan el número de animales utilizados en la realización de las prácticas de Fisiología Animal.
ENTIDAD FINANCIADORA: PIE 2002/21 UCM
DURACIÓN: 2003 (10 Meses)
INVESTIGADOR PRINCIPAL: Pedro Luis Lorenzo González

3.5.- FUNCIONES DE COORDINACIÓN DOCENTE

ASIGNATURA: Fisiología de la Licenciatura de Veterinaria
COORDINADOR: Gonzalo Costa Buitrago
CURSOS: 2003-2005

ASIGNATURA: Fisiología I del Grado de Veterinaria
COORDINADOR: Gonzalo Costa Buitrago
CURSOS: 2010-2011

3.6.- EVALUACIONES DE LA ACTIVIDAD DOCENTE

PROGRAMA DOCENTIA

CURSO: 2012 – 2013
ASIGNATURA: Fisiología Veterinaria I
GRUPOS: Mañana y tarde
TITULACIÓN: Grado de Veterinaria
EVALUACIÓN: Positiva

CURSO: 2013 – 2014
ASIGNATURA: Fisiología Veterinaria I
GRUPOS: Mañana y tarde
TITULACIÓN: Grado de Veterinaria
EVALUACIÓN: Positiva

CURSO: 2014 – 2015
ASIGNATURA: Fisiología Veterinaria I
GRUPOS: Mañana y tarde
TITULACIÓN: Grado de Veterinaria
EVALUACIÓN: Positiva

CURSO: 2016 – 2017
ASIGNATURA: Fisiología Veterinaria I

GRUPOS: Mañana y tarde
TITULACIÓN: Grado de Veterinaria
EVALUACIÓN: Muy Positiva

CURSO: 2017 – 2018
ASIGNATURA: Fisiología Veterinaria I
GRUPOS: Mañana y tarde
TITULACIÓN: Grado de Veterinaria
EVALUACIÓN: Muy Positiva

CUESTIONARIO DE EVALUACIÓN DEL PROFESORADO UNIVERSITARIO DE LA UNIVERSIDAD COMPLUTENSE (C.E.P.U.C.)

CURSO: 1988 – 1989
ASIGNATURA: Fisiología
MUESTRA: 68 alumnos
TITULACIÓN: Licenciatura de Veterinaria
EVALUACIÓN:

- Competencia mostrada: 5,67 sobre 7
- Motivación: 5,01 sobre 7

CURSO: 1989 – 1990
ASIGNATURA: Fisiología
MUESTRA: 124 alumnos
TITULACIÓN: Licenciatura de Veterinaria
EVALUACIÓN:

- Competencia mostrada: 5,4 sobre 7
- Motivación: 5,0 sobre 7

CURSO: 1990 – 1991
ASIGNATURA: Fisiología
MUESTRA: 49 alumnos
TITULACIÓN: Licenciatura de Veterinaria
EVALUACIÓN:

- Competencia mostrada: 5,3 sobre 7
- Motivación: 5,1 sobre 7

CURSO: 1991 – 1992
ASIGNATURA: Fisiología
MUESTRA: 52 alumnos
TITULACIÓN: Licenciatura de Veterinaria
EVALUACIÓN:

- Competencia mostrada: 5,1 sobre 7
- Motivación: 4,9 sobre 7

CURSO: 1994 – 1995
ASIGNATURA: Fisiología
MUESTRA: 57 alumnos
TITULACIÓN: Licenciatura de Veterinaria

EVALUACIÓN:

- Competencia mostrada: 5,4 sobre 7
- Motivación: 5,2 sobre 7

4.- GESTIÓN

- Miembro del Claustro Universitario (1984 – 1990)
- Miembro de la Junta de Facultad: 4 años
- Comisiones de la Facultad de Veterinaria
    - Asignatura de estancias
    - Traslados y convalidaciones
    - Fin de carrera
    - Prácticas externas

Fecha del CVA	07/05/2019

Parte A. DATOS PERSONALES

Nombre y Apellidos	Mónica De la Fuente del Rey		
DNI		Edad	
Núm. identificación del investigador	Researcher ID		
	Scopus Author ID		
	Código ORCID		

A.1. Situación profesional actual

Organismo	Universidad Complutense de Madrid		
Dpto. / Centro	Fisiología (Fisiología Animal II) / Facultad de Ciencias Biológicas		
Dirección	C/José Antonio Novais 12, Facultad de CC Biológicas de la UCM, 28040, Madrid		
Teléfono	625253800	Correo electrónico	mondelaf@bio.ucm.es
Categoría profesional	Catedrática de Unviersidad	Fecha inicio	1988
Espec. cód. UNESCO	241199 - Otras		
Palabras clave	Mecanismos moleculares de enfermedad		

A.2. Formación académica (titulo, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
DOCTOR EN MEDICINA	Universidad Miguel Hernández de Elche	2015
Especialista en Bioquímica Clínica	Ministerio Educación y Ciencia	1987
Diplomada en Sanidad	Escuela Nacional de Sanidad	1983
LICENCIADA EN FARMACIA	Universidad Complutense de Madrid	1981
DOCTOR EN CIENCIAS BIOLÓGICAS	Universidad Complutense de Madrid	1979
LICENCIADA EN CIENCIAS. BIOLÓGICAS	Universidad Complutense de Madrid	1973

A.3. Indicadores generales de calidad de la producción científica

Sexenios de investigación: **6 (1974-2009)**
Número de tesis de licenciatura y doctorales dirigidas: **55**
Actualmente está dirigiendo: 5 **.**
DEAS, TFM,.., dirigidos y presentados: **34**
La mayoría de los estudiantes y postdoctorales formados bajo mi dirección ocupan puestos en el mundo científico, académico, sanitario, empresarial,....Algunos de ellos han llegado a los puestos superiores dentro de su trayectoria (catedráticos, directores de grupos de investigación en España y en el extranjero, en hospitales, en empresas,..).
Publicaciones Totales (artículos, libros,..): **760**

Citas totals (Scopus): **9055**.
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Índice h: **54**

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

RESUMEN DEL C.V. DE LA DRA MONICA DE LA FUENTE DEL REY

Mónica De la Fuente, licenciada en Biología y Farmacia por la UCM, doctora en Biología por la UCM y en Medicina por la Miguel Hernández, es Catedrática de Fisiología desde

1986, lo es actualmente en la Facultad de Biología de la UCM. Ha desarrollado su labor docente e investigadora en diversos centros españoles (Universidad de Extremadura, de Córdoba, la UAM, el CSIC,..) e internacionales (Inglaterra, Alemania,..). Dicha labor queda reflejada en la organización y docencia de numerosos cursos y conferencias (más de 300), en la dirección de Tesis (más de 50), DEAS,TFM,..(34), en comunicaciones a congresos nacionales e internacionales (más de 800), en muchos de ellos (70) ha intervenido como miembro del equipo organizador o científico, en la creación y coordinación de Programas de Doctorado inter-universitarios (Fisiología, Inmunología,..) (algunos con mención de calidad como el de Inmunología). Es autora de numerosas publicaciones en revistas científicas (314 como artículos científicos, 360 en otros formatos) y en libros nacionales (61) e internacionales (25), con un total de 760 publicaciones, y ha participado en proyectos de investigación (67: 50 en convocatorias públicas y 17 con empresas). Ha recibido premios académicos y de investigación en el campo de la nutrición, el ejercicio, la neuroinmunología, el cáncer y, especialmente, la gerontología. Es miembro de Sociedades Científicas (13), en varias de ellas ha ostentado y ostenta puestos directivos. Ha formado parte de numerosos Comités de Evaluación a nivel nacional e internacional, es y ha sido miembro de diversas comisiones académicas y responsable de varios programas de investigación.Director de Departamento (8 años), miembro del Claustro en varias universidades. También ha participado y participa en la difusión de las investigaciones realizadas en diversos medios de comunicación (prensa, radio, televisión). Es Académica de Número en la Real Academia de Doctores de España desde 2003.

En la actualidad, en el marco del grupo de investigación que dirige en la UCM y en el Instituto de Investigación del Hospital 12 de Octubre de Madrid (i+12) (Envejecimiento, Neuroinmunología y Nutrición. ENEROINN), su interés investigador se centra en los mecanismos de inmunosenescencia, en el papel del sistema inmunitario en la oxidación e inflamación que tiene lugar al envejecer y en la capacidad de ese sistema como marcador de la velocidad de envejecimiento, esto es, la edad biológica. También, está interesada en conocer las posibles estrategias (nutricionales, de actividad física, ambiente social, de control del estrés emocional, entre otras) que permitan revitalizar nuestro sistema inmunitario y conseguir una mejor calidad de vida en la vejez, siendo actualmente referencia internacional en estos aspectos científicos. En este marco es destacable que ha generado una nueva teoría del envejecimiento (la de la oxidación-inflamación), publicada internacionalmente en el 2005 y perfilada en publicaciones posteriores, habiendo acuñado el término "oxi-inflamm-aging" para describir lo que sucede en el organismo al avanzar la edad. Desde 2004 dirige y lleva a cabo un proyecto de Servicios Externos en la Universidad Complutense para valorar el "Perfil inmunológico" de las personas que lo solicitan, dando con esa analítica información personalizada sobre el estado de salud y la edad biológica.

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

1 **Artículo científico**. I Martinez de Toda; et al. 2018. Frailty quantified by the “Valencia Score” as a potential predictor of lifespan in mice J Gerontol A Biol Sci Med Sci.73-10, pp.1323-1329.

2 **Artículo científico**. A Garrido; et al. 2018. Improvements in behavior and immune function and increases life span of old mice cohabitating with adult animals J Gerontol A Biol Sci Med Sci.73-7, pp.873-881.

3 **Artículo científico**. C Hunsche; et al. 2018. Immune dysfunction and increases oxidative stress state in diet-induced obese mice are reverted by nutritional supplementation with monounsaturated and N-3 polyunsaturated fatty acids Eur J Nutr.57-3, pp.1123-1135.

4 **Artículo científico**. C Fernandez-García; et al. 2018. Xanthohumol exerts protective effects in liver alterations associated with aging Eur J Nutr. pp.1-11.

5 **Artículo científico**. A Garrido; et al. 2018. Premature agin in behavior and immune functions in tyrosine hydroxylases hploinsufficient female mice. A longitudinal study Brain Behav Immun.69, pp.440-455.

6 **Artículo científico**. C Vida; et al. 2018. Impairment of several immune functions and redox state in blood cells of Alzheimer´s patients. Relevant role of neutrophils in the oxidative stress Front Immunol. 8, pp.1974-1990.
7 **Artículo científico**. L Rancan; et al. 2017. Protective effect of xanthohumol against age-related brain damage J Nutr Biochem.49, pp.133-140.
8 **Artículo científico**. V Mela; et al. 2017. Administration of a leptin antagonist during the neonatal leptin surge induces alterations in the redox and inflammatory state in peripubertal/adolescent rats Mol Cell Endocrinol.454, pp.125-134.
9 **Artículo científico**. ; et al. 2017. Role of macrophages in age-related oxidative stress and lipofuscin accumulation in mice Redox Biol.12, pp.423-437.
10 **Artículo científico**. I Martinez de Toda; C Vida; M De la Fuente. 2017. An appropriate modulation of lymphoproliferative response and cytokine release as a possible mechanism of longevity Int J Mol Sci.18-7, pp.1598-1607.
11 **Artículo científico**. G Esteban-Manzanares; et al. 2017. Improved measurement of elastic properties of cells by micropipette aspiration and its application to lymphocytes Ann Biomed Eng.45-5, pp.1375-1385.
12 **Artículo científico**. A Gheorghe; et al. 2017. Oxidative stress and immunosenescence in spleen of obese mice can be reversed by 2-hydroxyoleic acid Exp. Physiol.102-5, pp.533-544.
13 **Artículo científico**. ; et al. 2017. Parathyroid Hormone-related Protein protects osteoblastic cells from oxidative stress by activation of MKP1 phosphatase J Cell Physiol.232-4, pp.785-796.
14 **Artículo científico**. I Martinez de Toda; et al. 2016. Immune function parameters as markers of biological age and predictors of longevity Aging. 8-11, pp.3110-3119.
15 **Artículo científico**. I Martinez de Toda; et al. 2016. Hsp70 basal levels, a tissue marker of the rate of aging and longevity in mice Exp. Gerontol.84, pp.21-28.
16 **Artículo científico**. C Borras; et al. 2016. Human exceptional longevity: Transcriptome from centenarians is distinct from septuagenarians and reveals a role of Bcl-xL in successful aging Aging. 8-12, pp.3185-3208.
17 **Artículo científico**. ME Bauer; M De la Fuente. 2016. The role of oxidative and inflammatory stress and persistent viral infections in immunosenescence Mech Ageing Dev. 158, pp.27-37.
18 **Artículo científico**. C Hunsche; O Hernandez; M De la Fuente. 2016. Impaired immune response in old mice suffering from obesity and premature immunosenescence in adulthood J Gerontol A Biol Sci Med Sci.71-8, pp.983-991.
19 **Artículo científico**. M Jove; et al. 2016. Human aging is a metabolome-related matter of gender J. Gerontol A Biol Sci Med Sci. 71-5, pp.578-585.
20 **Artículo científico**. S Portal-Nuñez; et al. 2016. Adverse effects of diabetes mellitus on the skeleton of aging mice J Gerontol A Biol Sci Med Sci. 71-3, pp.290-299.
21 **Capítulo de libro**. M De la Fuente. 2018. Oxidation and inflammation in the immune and nervous sytems, a link between aging and anxiety Handbook of Immunosenescence. Springer Nature. Cham. pp.1-31.
22 **Capítulo de libro**. 2018. Bio-psycho-social bridge: the psychoneuroimmune system in successful aging Cambridge Handbook of Succesful Aging. Cambridge University Press. 16, pp.265-280.

C.2. Proyectos

1 Novel Testing Strategies for Endocrine Disruptors in the Context of Developmental NeuroToxicity (ENDpoiNTs European Commission). 2018-2020.
2 Marcadores de velocidad de envejecimiento y de longevidad saludable en humanos. Validación en modelos animales". Instituto de salud Carlos III. (FIS) (PI15/01787) M De la Fuente. (Instituto Investigación 12 de Octubre). 2016-2018. 86.515 €.
3 RED Temática de Investigación Cooperativa en Salud (RETICS 2012) de Fragilidad y Envejecimiento del Instituto de Salud Carlos III y FEDER (Unión Europea). RETICEF (RD12/0043/0018) M De la Fuente. (Universidad Complutense de Madrid). 2013-2016. 143.404,46 €.

4 Modelos de envejecimiento prematuro en ratones. Mecanismos inmunitarios implicados y estrategias para aumentar la longevidad. (Universidad Complutense de Madrid). 01/01/2012-30/09/2015. 70 €.
5 Grupo UCM: Envejecimiento, Neuroinmunología y Nutrición (ENEROINN). Nº 910379. (GR3/14) M De la Fuente. (Universidad Complutense de Madrid). 2014-2015. 2.493,95 €.
6 "Parathyroid hormone-related protein promotes bone formation and bone " regeneration by modulating the increased oxidative stress common to age and diabetes-related osteopenia". Instituto de Salud Carlos III (PI 11/00449) M De la Fuente. (Fundación Jimenez Díaz). 2012-2014.
7 "Investigación científica dirigida al control de peso y prevención de la obesidad y prolongación del envejecimiento". Ayudas Grupos de Investigación Santander ECL M De la Fuente. (Universidad Complutense). 2012-2012. 6.000 €.
8 Mecanismos de inmunosenescencia implicados en el proceso de envejecimiento y en la longevidad. Grupo UCM: Envejecimiento, Neuroinmunología y Nutrición (ENEROINN). Nº 910379. Proyecto Convocatoria GR35/10-A (Santander-UCM, modalidad A-Consolidados) para 2011 M De la Fuente. (Universidad Complutense de Madrid). 01/01/2011-31/12/2011. 2.137,33 €.
9 Implicación de las células inmunitarias en el proceso de envejecimiento. BFU2008-04336 MICINN. (Universidad Complutense de Madrid). 01/01/2009-31/12/2011. 60,5 €.

C.3. Contratos

1 Efecto del descanso sobre materiales naturales y libres de campos electromagnéticos en el sistema inmunitario y la edad biológica. Estudio piloto ORIGINBEDS. Mónica De la Fuente del Rey. 22/02/2018-22/02/2019. 39.500 €.
2 Efecto de la administración de NUTRISIM sobre la función cerebral e inmunitaria en el envejecimiento: una posible estrategia para aumentar la calidad de vida y la longevidad". Bayon Consulting Research and Development S.L. Bayon Consulting Research and Development S.L.. 2011-P2Y. 11.111 €.
3 Terapia de nanopulsos con Pulsarión para mejorar la función de las células del sistema inmunitario en animales viejos Pulsartec SLU.. 2009-P2Y. 4.500 €.
4 Valoración de la situación inmunológica en pacientes con EPOC y el perfil de citoquinas en mujeres mayores Zambon SA.. 2009-P2Y. 11.000 €.
5 Efecto beneficioso de las aguas sulfuradas sobre el sistema inmunitario y el estrés oxidativo Fundación para la Investigación e Innovación en Hidrología Médica y Balneoterapia. "BILBILIS. 2008-P1Y. 5.950 €.
6 Nutrición e Inmunidad en la vejez Abbott Laboratories, S.A.. 2008-P2Y. 15.000 €.
7 Perfil Inmunológico de Edad Biológica Novoclinic. 2006-P2Y. 21.511 €.
8 Effects in vivo and in vitro of 4 biscuits on several immune and oxidative functions and on longevity in mouse DANONE VITAPOLE. 01/01/2005-P1Y6M. 9.000 €.
9 Efecto de la N-acetilcisteina (NAC) sobre el sistema inmunitario Zambon SA-Pharmazam SA.. 05/2004-P1Y1M. 58.923 €.

C.4. Patentes

Mónica De la Fuente; Noelia Guayerbas. Nº P200300433. Utilización de compuestos antioxidantes en el aumento de la longevidad España. 16/03/2006. Universidad Complutense de Madrid.

Ministerio de Economía y Competitividad
Secretaría de Estado de Investigación, Desarrollo e Innovación

Currículum Vitae

Medardo Vicente Hernández Rodríguez

(24/6/2019)

Apellidos: Hernández Rodríguez Nombre: Medardo Vicente
DNI: Fecha de nacimiento: Sexo: V

Situación profesional actual

Organismo: Universidad Complutense de Madrid
Facultad, Escuela o Instituto: Facultad de Farmacia
Depto./Secc./Unidad estr.: Departamento de Fisiología
Dirección postal: Plaza Ramón y Cajal s/n, Ciudad Universitaria, 28040-Madrid

Teléfono (indicar prefijo, número y extensión): 91 394 71 92
Fax: 91 394 22 67
Correo electrónico: medardo@ucm.es
Identificador ORCID: 0 (Índice *h*: 19, *Scopus*).

Especialización (Códigos UNESCO): 2411.10, 2411.11
Categoría profesional: Catedrático de Universidad Fecha de inicio: 2/5/2018
(Número de Registro Personal: 0111273257 A0500)
Situación administrativa
☒ Plantilla ☐ Contratado ☐ Interino ☐ Becario
☐ Otras situaciones especificar:

Dedicación A tiempo completo ☒
A tiempo parcial ☐

Líneas de investigación

Breve descripción de la especialización y líneas de investigación actuales.

. Regulación adrenérgica, colinérgica, nitrérgica, purinérgica y peptidérgica de la musculatura lisa de los Tractos Urinario (uréter y vejiga urinaria) y Genital (arterias helicinas peneanas y cuerpo cavernoso).
. Neurotransmisión inhibidora no adrenérgica no colinérgica del Tracto Urinario Inferior mediada por moléculas gaseosas como el sulfuro de hidrógeno y el óxido nítrico.
. Modificaciones en la reactividad vascular y visceral del Sistema Urogenital en la rata Zucker obesa, modelo experimental de Síndrome Metabólico.

Formación Académica

Titulación Superior	Centro	Fecha
Licenciado en Veterinaria	Facultad de Veterinaria, UCM	1986

Doctorado	Centro	Fecha
Doctor en Veterinaria	Facultad de Veterinaria, UCM	1991

Actividades anteriores de carácter científico profesional

Puesto	Institución	Fechas
Ayudante de Escuela Universitaria	Universidad Complutense de Madrid. Facultad de Veterinaria. Departamento de Fisiología.	11/88-11/90
Ayudante de Escuela Universitaria	Universidad Complutense de Madrid. Facultad de Veterinaria. Departamento de Fisiología.	11/90-11/93
Profesor Asociado a TC Tipo 1	Universidad Complutense de Madrid. Facultad de Veterinaria. Departamento de Fisiología.	11/93-12/93
Profesor Titular de Escuela Universitaria	Universidad Complutense de Madrid. Facultad de Veterinaria. Departamento de Fisiología.	12/93-01/02
Profesor Titular de Universidad	Universidad Complutense de Madrid. Facultad de Farmacia. Departamento de Fisiología.	01/02-05/18

Idiomas (R = regular, B = bien, C = correctamente)

Idioma	Habla	Lee	Escribe
Inglés	B	B	B

Participación en Proyectos de I+D financiados en Convocatorias públicas

(nacionales y/o internacionales)

Título del proyecto: “Estudio de la inervación adrenérgica, colinérgica y peptidérgica en la unión uréterovesical y su función en el transporte de orina ureteral y en la actividad vesical”.
Entidad financiadora: Ministerio de Educación y Ciencia, DGICYT, PM 88-0035.
Entidades participantes:
Duración, desde: 1988 hasta: 1992 Cuantía de la subvención: 4.000.000 Ptas.
Investigador responsable: Dr. Albino García Sacristán
Número de investigadores participantes: 4

Título del proyecto: “Mecanismos de calcio en la actividad contráctil e inducida de las arterias de resistencia de la circulación coronaria”.
Entidad financiadora: Universidad Complutense de Madrid, Grupos Precompetitivos, PR189/92-4174.
Entidades participantes:
Duración, desde: 1992 hasta: 1994 Cuantía de la subvención: 1.500.000 Ptas.
Investigador responsable: Dra. Dolores Prieto Ocejo
Número de investigadores participantes: 3

Título del proyecto: “Estudio de los vasos de resistencia peneanos: Implicaciones en la fisiología de la erección en la impotencia de origen vascular”.
Entidad financiadora: Ministerio de Educación y Ciencia, DGICYT, PM 92-0031.
Entidades participantes:
Duración, desde: 1992 hasta: 1994 Cuantía de la subvención: 3.600.000 Ptas.
Investigador responsable: Dr. Albino García Sacristán
Número de investigadores participantes: 4

Título del proyecto: “Application of novel in vitro technology to human resistance artery disease”.
Entidad financiadora: Biomedical and Health Research Programme of the European Union, PL 920777.
Entidades participantes:
Duración, desde: 1992 hasta: 1996 Cuantía de la subvención: 400.000 ECU
Investigador responsable: Dr. Michael J. Mulvany
Número de investigadores participantes: 5

Título del proyecto: “Síntesis y desarrollo de nuevos compuestos con afinidad por el receptor serotoninérgico”.
Entidad financiadora: Ministerio de Educación y Ciencia, DGICYT, PB94-0289.
Entidades participantes:
Duración, desde: 1995 hasta: 1998 Cuantía de la subvención: 10.000.000 Ptas.
Investigador responsable: Dra. Mª Luz López Rodríguez
Número de investigadores participantes: 6

Título del proyecto: “Síntesis y relación estructura-actividad de nuevos agentes con afinidad por distintos subtipos de receptores 5-HT”.
Entidad financiadora: Universidad Complutense de Madrid, PR218/94-5657.
Entidades participantes:
Duración, desde: 1995 hasta: 1998 Cuantía de la subvención: 3.000.000 Ptas.
Investigador responsable: Dra. Mª Luz López Rodríguez
Número de investigadores participantes: 5

Título del proyecto: “Mecanismos vasculares en la erección peneana: estudio del funcionalismo venooclusivo”.
Entidad financiadora: Comunidad Autónoma de Madrid, CAM-6649.
Entidades participantes:
Duración, desde: 1997 hasta: 1998 Cuantía de la subvención: 4.000.000 Ptas.
Investigador responsable: Dr. Albino García Sacristán
Número de investigadores participantes: 7

Título del proyecto: “Función de las venas peneanas en la erección”.
Entidad financiadora: Ministerio de Educación y Ciencia, DGES, PM98-0088.
Entidades participantes:
Duración, desde: 1998 hasta: 2002 Cuantía de la subvención: 4.000.000 Ptas.
Investigador responsable: Dr. Albino García Sacristán
Número de investigadores participantes: 7

Título del proyecto: “Acción de la serotonina sobre la actividad de la musculatura lisa del uréter intravesical”.
Entidad financiadora: Universidad Complutense de Madrid, Proyectos Complutense, PR52/00-8873.
Entidades participantes:
Duración, desde: 2000 hasta: 2001 Cuantía de la subvención: 700.000 Ptas.
Investigador responsable: **Dr. Medardo V. Hernández Rodríguez**
Número de investigadores participantes: 2

Título del proyecto: “Mecanismo de acción de la prostaglandina E1 (PGE1) y el sildenafilo en las arterias de resistencia peneanas”.
Entidad financiadora: Ministerio de Ciencia y Tecnología, SAF2002-02923.
Entidades participantes:
Duración, desde: 2002 hasta: 2004 Cuantía de la subvención: 46.000 Euros
Investigador responsable: Dra. Dolores Prieto Ocejo
Número de investigadores participantes: 3

Título del proyecto: “Control del flujo sanguíneo prostático por la noradrenalina y las endotelinas: implicaciones clínicas en el tratamiento de la hiperplasia prostática benigna”.
Entidad financiadora: Fundación MMA (Mutua Madrileña Automovilista, II Convocatoria de Ayudas Investigación Biomédica).
Entidades participantes:
Duración, desde: 2005 hasta: 2006 Cuantía de la subvención: 18.900 Euros
Investigador responsable: **Dr. Medardo V. Hernández Rodríguez**
Número de investigadores participantes: 5

Título del proyecto: “Regulación nitrérgica, peptidérgica y androgénica de la vascularización prostática: implicaciones en la génesis de la hiperplasia prostática benigna”.
Entidad financiadora: Fundación MMA (Mutua Madrileña Automovilista, III Convocatoria de Ayudas Investigación Biomédica).
Entidades participantes:
Duración, desde: 2006 hasta: 2009 Cuantía de la subvención: 39.100 Euros
Investigador responsable: **Dr. Medardo V. Hernández Rodríguez**
Número de investigadores participantes: 5

Título del proyecto: “Papel de la vía de señalización de la proteína RHO/CINASA RHO en la vasculopatía diabética de las arterias peneanas: Implicaciones terapéuticas”.
Entidad financiadora: Ministerio de Educación y Ciencia, SAF2006-09191.
Entidades participantes:
Duración, desde: 2007 hasta: 2010 Cuantía de la subvención: 87.000 Euros
Investigador responsable: Dra. Dolores Prieto Ocejo
Número de investigadores participantes: 7

Título del proyecto: “Fisiología y Farmacología del Sistema Urogenital”.
Entidad financiadora: Universidad Complutense de Madrid, CCG07-UCM/SAL-2986.
Entidades participantes:
Duración, desde: 2008 hasta: 2009 Cuantía de la subvención: 8.000 Euros
Investigador responsable: Dr. Albino García Sacristán
Número de investigadores participantes: 9

Título del proyecto: “Fisiología y Farmacología del Sistema Urogenital”.
Entidad financiadora: Universidad Complutense de Madrid, GR58/08-UCM 920122-1056.
Entidades participantes:
Duración, desde: 2009 hasta: 2010 Cuantía de la subvención: 9.000 Euros
Investigador responsable: Dr. Albino García Sacristán
Número de investigadores participantes: 9

Título del proyecto: “Mecanismos involucrados en la relajación independiente de óxido nítrico en el cuello de la vejiga urinaria: Implicación terapéutica en la incontinencia urinaria producida por deficiencia esfintérica intrínseca”.
Entidad financiadora: Ministerio de Ciencia e Innovación, PS09/00044.
Entidades participantes:
Duración, desde: 2009 hasta: 2012 Cuantía de la subvención: 101.500 Euros
Investigador responsable: **Dr. Medardo V. Hernández Rodríguez**
Número de investigadores participantes: 6

Título del proyecto: “Estudio de la funcionalidad vesical en un modelo experimental porcino y de rata con lesión medular: reinstauración de la neurotransmisión en la continencia urinaria por la terapia celular”.
Entidad financiadora: Fundación para la Investigación Biomédica del Hospital Puerta de Hierro Majadahonda.
Entidades participantes: Unidad de Investigación de Urología Funcional y Urodinámica (FPH) y UCM
Duración, desde: 2011 hasta: 2013 Cuantía de la subvención: 20.000 Euros
Investigador responsable: Dr. David Vázquez Alba
Número de investigadores participantes: 5

Título del proyecto: “Estudio de la funcionalidad vesical en modelos animales con lesión medular: Influencia de la terapia celular”.
Entidad financiadora: Fundación Mapfre (Ayudas a la investigación 2012).
Entidades participantes: Unidad de Investigación de Urología Funcional y Urodinámica (FPH) y UCM
Duración, desde: 2012 hasta: 2013 Cuantía de la subvención: 15.000 Euros
Investigador responsable: Dr. Salvador Bustamante Alarma
Número de investigadores participantes: 7

Título del proyecto: “Investigación traslacional de las alteraciones funcionales de la vejiga urinaria asociadas a la hipoxia isquémica cerebral. Repercusión patogénica en las disfunciones miccionales”.
Entidad financiadora: Fundación para la Investigación en Urología, Asociación Española de Urología.
Entidades participantes: Unidad de Investigación de Urología Funcional y Urodinámica (FPH) y UCM
Duración, desde: 2013 hasta: 2014 Cuantía de la subvención: 12.500 Euros
Investigador responsable: Dr. Salvador Bustamante Alarma
Número de investigadores participantes: 7

Título del proyecto: “Modificaciones morfológicas y funcionales de la vejiga urinaria en un modelo experimental de síndrome metabólico: Potencial terapéutico en la incontinencia urinaria”.
Entidad financiadora: Proyectos de Investigación Santander-UCM (PR6/13-18858)
Entidades participantes:
Duración, desde: 2013 hasta: 2014 Cuantía de la subvención: 8.000 Euros
Investigador responsable: **Dr. Medardo Vicente Hernández Rodríguez**
Número de investigadores participantes: 8

Título del proyecto: “Deterioro de la contractilidad de la vejiga urinaria en un modelo experimental de obesidad resistente a la insulina”.
Entidad financiadora: Proyectos de Investigación Santander-UCM (PR26/16-20262)
Entidades participantes:
Duración, desde: 2016 hasta: 2017 Cuantía de la subvención: 8.000 Euros
Investigador responsable: **Dr. Medardo Vicente Hernández Rodríguez**
Número de investigadores participantes: 6

Título del proyecto: “Deterioro de la contractilidad de la vejiga urinaria en un modelo experimental de obesidad resistente a la insulina”.
Entidad financiadora: Proyectos de Investigación Santander-UCM (PR75/18-21562)
Entidades participantes:
Duración, desde: 2018 hasta: 2019 Cuantía de la subvención: 5.000 Euros
Investigador responsable: **Dr. Medardo Vicente Hernández Rodríguez**
Número de investigadores participantes: 5

Publicaciones o Documentos Científico-Técnicos

Identificador ORCID: 0000-0001-7165-2135

(CLAVE: L = libro completo, CL = capítulo de libro, A = artículo, R = "review", E = editor, S = Documento Científico-Técnico restringido.)

Autores: Prieto D, Benedito S, Rivera L, **Hernández M**, García-Sacristán A.
Título: "Autonomic innervation of the equine urinary bladder".
Revista: **Anat Histol Embryol** ISSN: 1439-0264
Clave: **A** Volumen: **19** Páginas, inicial: 276 final: 287 Fecha: 1990
Factor de impacto: 0.123 (Q3- Anatomy & Morphology-Scie) Nº de citaciones: 13

Autores: Rivera L, Benedito S, Prieto D, **Hernández M**, Labadía A, García-Sacristán A.
Título: "α- and β-adrenoceptors in the sheep urinary bladder".
Revista: **Res Vet Sci** ISSN: 0034-5288
Clave: **A** Volumen: **50** Páginas, inicial: 259 final: 263 Fecha: 1991
Factor de impacto: 0.688 (Q1- Veterinary Sciences-Scie) Nº de citaciones: 4

Autores: Rivera L, Prieto D, **Hernández M**, Benedito S, García-Sacristán A.
Título: "Distribution and function of cholinergic receptors in the sheep detrusor muscle".
Revista: **J Auton Nerv Syst** ISSN: 1566-0702
Clave: **A** Volumen: **34** Páginas, inicial: 95 final: 102 Fecha: 1991
Factor de impacto: 1.475 (Q2- Neurosciences-Scie) Nº de citaciones: 10

Autores: Rivera L, **Hernández M**, Benedito S, Prieto D, García-Sacristán A.
Título: "Mediation of contraction and relaxation by alpha- and beta-adrenoceptors in the ureterovesical junction of the sheep".
Revista: **Res Vet Sci** ISSN: 0034-5288
Clave: **A** Volumen: **52** Páginas, inicial: 57 final: 61 Fecha: 1992
Factor de impacto: 0.658 (Q1- Veterinary Sciences-Scie) Nº de citaciones: 7

Autores: Rivera L, **Hernández M**, Benedito S, Prieto D, García-Sacristán A.
Título: "Mediation of contraction by cholinergic muscarinic receptors in the ureterovesical junction".
Revista: **J Auton Pharmacol** ISSN: 1474-8673
Clave: **A** Volumen: **12** Páginas, inicial: 175 final: 181 Fecha: 1992
Factor de impacto: 1.149 (Q3- Pharmacology & Pharmacy-Scie) Nº de citaciones: 11

Autores: **Hernández M**, Prieto D, Simonsen U, Rivera L, Barahona MV, García-Sacristán A.
Título: "Noradrenaline modulates smooth muscle activity of the isolated intravesical ureter of the pig through different types of adrenoceptors".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **107** Páginas, inicial: 924 final: 931 Fecha: 1992
Factor de impacto: 5.094 (Q1- Pharmacology & Pharmacy-Scie) Nº de citaciones: 51

Autores: Prieto D, **Hernández M**, Rivera L, García-Sacristán A.
Título: "Catecholaminergic innervation of the equine ureter".
Revista: **Res Vet Sci** ISSN: 0034-5288
Clave: **A** Volumen: **54** Páginas, inicial: 312 final: 318 Fecha: 1993
Factor de impacto: 0.754 (Q1- Veterinary Sciences-Scie) Nº de citaciones: 12

Autores: Simonsen U, Prieto D, Rivera L, **Hernández M**, Mulvany MJ, García-Sacristán A.
Título: "Heterogeneity of muscarinic receptors in lamb isolated coronary resistance arteries".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **109** Páginas, inicial: 998 final: 1007 Fecha: 1993
Factor de impacto: 5.270 (Q1- Pharmacology & Pharmacy-Scie) Nº de citaciones: 22

Autores: **Hernández M**, Simonsen U, Prieto D, Rivera L, García P, Ordaz E, García-Sacristán A.
Título: "Different muscarinic receptors subtypes mediating phasic activity and basal tone of pig isolated intravesical ureter".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **110** Páginas, inicial: 1413 final: 1420 Fecha: 1993
Factor de impacto: 5.270 (Q1- Pharmacology & Pharmacy-Scie) Nº de citaciones: 33

Autores: Prieto D, Simonsen U, Martín J, **Hernández M**, Rivera L, García P, García-Sacristán A.
Título: "Histochemical and functional evidence for a cholinergic innervation of the equine ureter".
Revista: **J Auton Nerv Syst** ISSN: 1566-0702
Clave: **A** Volumen: **47** Páginas, inicial: 159 final: 170 Fecha: 1994
Factor de impacto: 1.742 (Q2- Neurosciences-Scie) Nº de citaciones: 24

Autores: **Hernández M**, Prieto D, Orensanz LM, Barahona MV, García-Sacristán A, Simonsen U.
Título: "Nitric oxide is involved in the inhibitory neurotransmission of the pig intravesical ureter".
Revista: **Neurosci Lett** ISSN: 0304-3940
Clave: **A** Volumen: **186** Páginas, inicial: 33 final: 36 Fecha: 1995
Factor de impacto: 2.318 (Q2- Neurosciences-Scie) Nº de citaciones: 33

Autores: **Hernández M**, García-Sacristán A, Orensanz LM.
Título: "Muscarinic binding sites of the pig intravesical ureter".
Revista: **J Auton Pharmacol** ISSN: 1474-8673
Clave: **A** Volumen: **15** Páginas, inicial: 351 final: 359 Fecha: 1995
Factor de impacto: 2.286 (Q2- Pharmacology & Pharmacy-Scie) Nº de citaciones: 11

Autores: **Hernández M**, Prieto D, Orensanz LM, Barahona MV, Jiménez-Cidre M, Rivera L, García Sacristán A, Simonsen U.
Título: "Involvement of a glibenclamide-sensitive mechanism in the nitrergic neurotransmission of the pig intravesical ureter".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **120** Páginas, inicial: 609 final: 616 Fecha: 1997
Factor de impacto: 3.619 (Q1-15/157 Pharmacology & Pharmacy-Scie) Nº de citaciones: 20

Autores: Simonsen U, Prieto D, **Hernández M**, Sáenz de Tejada I, García-Sacristán A.
Título: "Adrenoceptor-mediated regulation of the contractility in horse penile resistance arteries".
Revista: **J Vasc Res** ISSN: 1018-1172
Clave: **A** Volumen: **34** Páginas, inicial: 90 final: 102 Fecha: 1997
Factor de impacto: 2.458 (Q1-15/65 Physiology-Scie) Nº citaciones: 41

Autores: Simonsen U, Prieto D, Delgado JA, **Hernández M**, Resel L, Sáenz de Tejada I, García-Sacristán A.
Título: "Nitric oxide is involved in the inhibitory neurotransmission and endothelium-dependent relaxations of human small penile".
Revista: **Clin Sci** ISSN: 0143-5221
Clave: **A** Volumen: **92** Páginas, inicial: 269 final: 275 Fecha: 1997
Factor de impacto: 1.820 (Q2-19/61 Medicine, Research & Experimental-Scie) Nº citaciones: 40

Autores: Simonsen U, Prieto D, Delgado JA, **Hernández M**, Resel L, Sáenz de Tejada I, García-Sacristán A.
Título: "Prejunctional α_2-adrenoceptors inhibit nitrergic neurotransmission in horse penile resistance arteries".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **157** Páginas, inicial: 2356 final: 2360 Fecha: 1997
Factor de impacto: 2.719 (Q1-4/37 Urology & Nephrology-Scie) Nº citaciones: 51

Autores: Prieto D, **Hernández M**, Rivera L, García-Sacristán A, Simonsen U.
Título: "Distribution and functional effects of neuropeptide Y on equine ureteral smooth muscle and resistance arteries".
Revista: **Regul Pept** ISSN: 0167-0115
Clave: **A** Volumen: **69** Páginas, inicial: 155 final: 1650 Fecha: 1997
Factor de impacto: 1.841 (Q2-33/81 Endocrinology & Metabolism-Scie) Nº citaciones: 17

Autores: **Hernández M**, Elmedal B, Mulvany MJ, Simonsen U.
Título: "Mechanisms of relaxations of bovine isolated bronchioles by the nitric oxide donor, GEA 3175".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **123** Páginas, inicial: 895 final: 905 Fecha: 1998
Factor de impacto: 3.704 (Q1-15/178 Pharmacology & Pharmacy-Scie) Nº de citaciones: 9

Autores: Prieto D, Simonsen U, **Hernández M**, García-Sacristán A.
Título: "Contribution of K^+ channels and ouabain-sensitive mechanisms to the endothelium-dependent relaxations of horse penile small arteries".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **123** Páginas, inicial: 1609 final: 1620 Fecha: 1998
Factor de impacto: 3.704 (Q1-15/178 Pharmacology & Pharmacy-Scie) Nº de citaciones: 52

Autores: Recio P, García-López P, **Hernández M**, Prieto D, Contreras J, García-Sacristán A.
Título: "Nitrergic relaxation of the horse corpus cavernous. Role of cGMP".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **351** Páginas, inicial: 85 final: 94 Fecha: 1998
Factor de impacto: 1.992 (Q1-34/178 Pharmacology & Pharmacy-Scie) Nº citaciones: 22

Autores: López-Rodríguez ML, Morcillo MJ, Rovat TK, Fernández E, Vicente B, Sanz AM, **Hernández M**, Orensanz LM.
Título: "Synthesis and structure-activity relationships of a new model of arylpiperazines. 4.1-[4-arylpiperazin-1-yl)alkyl]-3-(diphenylmethylene)-2,5-pyrrolidinediones and -3-(9H-fluoren-9-ylidene)-2,5-pyrrolidinediones: study of the steric requirements of the terminal amide fragment on 5-HT1A affinity/selectivity".
Revista: **J Med Chem** ISSN: 0022-2623
Clave: **A** Volumen: **42** Páginas, inicial: 36 final: 49 Fecha: 1999
Factor de impacto: 4.079 (Q1-2730 Chemistry, Medicinal-Scie) Nº citaciones: 15

Autores: **Hernández M**, Barahona MV, Bustamante S, García-Sacristán A, Orensanz LM.
Título: "A2B adenosine receptors mediate relaxation of the pig intravesical ureter: adenosine modulation of non-adrenergic non-cholinergic excitatory neurotransmission".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **126** Páginas, inicial: 969 final: 978 Fecha: 1999
Factor de impacto: 3.722 (Q1-16/175 Pharmacology & Pharmacy-Scie) Nº de citaciones: 15

Autores: Bustamante S, Orensanz LM, Barahona MV, Contreras J, García-Sacristán A, **Hernández M**.
Título: "Tachykininergic excitatory neurotransmission in the pig intravesical ureter".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **164** Páginas, inicial: 1371 final: 1375 Fecha: 2000
Factor de impacto: 2.896 (Q1-6/43 Urology & Nephrology-Scie) Nº citaciones: 10

Autores: Bustamante S, Orensanz LM, Barahona MV, García-Sacristán A, **Hernández M**.
Título: "NK2 tachykinin receptors mediate contraction of the pig intravesical ureter: tachykinin-induced enhancement of non-adrenergic non-cholinergic neurotransmission".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **20** Páginas, inicial: 297 final: 308 Fecha: 2001
Factor de impacto: 2.266 (Q1-11/44 Urology & Nephrology-Scie) Nº citaciones: 9

Autores: Martínez AC, Prieto D, **Hernández M**, García-Sacristán A, Benedito S.
Título: "Contractile response of horse deep dorsal penile vein to histamine".
Revista: **Int J Impot Res** ISSN: 0955-9930
Clave: **A** Volumen: **14** Páginas, inicial: 85 final: 92 Fecha: 2002
Factor de impacto: 2.539 (Q1-9/47 Urology & Nephrology-Scie) Nº citaciones: 6

Autores: **Hernández M**, Barahona MV, Simonsen U, Recio P, Rivera L, Martínez AC, García-Sacristán A, Orensanz LM, Prieto D.
Título: "Characterization of the 5-hydroxytryptamine receptors mediating contraction in the pig isolated intravesical ureter".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **138** Páginas, inicial: 137 final: 144 Fecha: 2003
Factor de impacto: 3.611 (Q1-31/185 Pharmacology & Pharmacy-Scie) Nº de citaciones: 12

Autores: Martínez AC, **Hernández M**, Rivera L, Recio P, García-Sacristán A, Benedito S.
Título: "Muscarinic receptor subtypes mediate vasorelaxation in isolated horse deep dorsal penile vein".
Revista: **Urology** ISSN: 0090-4295
Clave: **A** Volumen: **62** Páginas, inicial: 357 final: 361 Fecha: 2003
Factor de impacto: 2.782 (Q1- Urology & Nephrology-Scie) Nº citaciones: 7

Autores: **Hernández M**, Barahona MV, Recio P, Rivera L, Benedito S, Martínez AC, García-Sacristán A, Orensanz LM, Prieto D.
Título: "Heterogeneity of neuronal and smooth muscle receptors involved in the VIP- and PACAP-induced relaxations of the pig intravesical ureter".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **141** Páginas, inicial: 123 final: 131 Fecha: 2004
Factor de impacto: 3.325 (Q1-39/187 Pharmacology & Pharmacy-Scie) Nº de citaciones: 16

Autores: Recio P, Prieto D, Martínez MP, García P, Rivera L, Benedito S, Martínez AC, García-Sacristán A, Orensanz LM, **Hernández M**.
Título: "Immunohistochemical and functional evidence for a noradrenergic regulation in the horse penile deep dorsal vein".
Revista: **Int J Impot Res** ISSN: 0955-9930
Clave: **A** Volumen: **16** Páginas, inicial: 486 final: 491 Fecha: 2004
Factor de impacto: 1.987 (Q2-16/52 Urology & Nephrology-Scie) Nº citaciones: 15

Autores: Ruiz-Rubio JL, **Hernández M**, Rivera L, Martínez AC, García-Sacristán A, Prieto D.
Título: "Mechanisms of the prostaglandin E_1 induced relaxation in penile resistance arteries".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **171** Páginas, inicial: 968 final: 973 Fecha: 2004
Factor de impacto: 3.713 (Q1-6/52 Urology & Nephrology-Scie) Nº citaciones: 22

Autores: Ruiz Rubio JL, **Hernández M**, Rivera de los Arcos L, Benedito S, Recio P, García P, García Sacristán A, Prieto D.
Título: "Role of ATP-sensitive K^+ channels in the relaxations of penile resistance arteries".
Revista: **Urology** ISSN: 0090-4295
Clave: **A** Volumen: **63** Páginas, inicial: 800 final: 805 Fecha: 2004
Factor de impacto: 2.585 (Q1- Urology & Nephrology-Scie) Nº citaciones: 15

Autores: Rivera de los Arcos L, Prieto D, Martínez AC, Benedito S, **Hernández M**, García-Sacristán A.
Título: "A new in vitro method to study functional responses of penile resistance arteries under isobaric conditions".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **171** Páginas, inicial: 1974 final: 1978 Fecha: 2004
Factor de impacto: 3.713 (Q1-6/52 Urology & Nephrology-Scie) Nº citaciones: 3

Autores: Prieto D, Arcos LR, Martínez P, Benedito S, García-Sacristán A, **Hernández M**.
Título: "Heterogeneity of the neuropeptide Y (NPY) contractile and relaxing receptors in horse penile small arteries".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **143** Páginas, inicial: 976 final: 986 Fecha: 2004
Factor de impacto: 3.325 (Q1-39/187 Pharmacology & Pharmacy-Scie) Nº de citaciones: 11

Autores: Martínez AC, Prieto D, **Hernández M**, Rivera L, Recio P, García-Sacristán A, Benedito S.
Título: "Endothelial mechanisms underlying responses to acetylcholine in the horse deep dorsal penile vein".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **515** Páginas, inicial: 150 final: 159 Fecha: 2005
Factor de impacto: 2.477 (Q2-63/193 Pharmacology & Pharmacy-Scie) Nº citaciones: 8

Autores: Prieto D, Rivera L, Recio P, Ruiz-Rubio JL, **Hernández M**, García-Sacristán A
Título: "Role of nitric oxide in the relaxation elicited by sildenafil in penile resistance arteries".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **175** Páginas, inicial: 1164 final: 1170 Fecha: 2006
Factor de impacto: 3.956 (Q1-8/55 Urology & Nephrology-Scie) Nº citaciones: 11

Autores: Martínez AC, **Hernández M,** Prieto D, Raposo R, Pagán R, García-Sacristán A, Benedito S.
Título: "Enhanced histamine-mediated contraction of rabbit penile dorsal artery in diet-induced hypercholesterolemia".
Revista: **Vasc Pharmacol** ISSN: 1537-1891
Clave: **A** Volumen: **44** Páginas, inicial: 34 final: 41 Fecha: 2006
Factor de impacto: 1.718 (Q2- Pharmacology & Pharmacy-Scie) Nº citaciones: 2

Autores: Prieto D, Rivera L, Benedito S, Recio P, Villalba N, **Hernández M**, García-Sacristán A.
Título: "Ca^{2+}-activated K^+ (K_{Ca}) channels are involved in the relaxations elicited by sildenafil in penile resistance arteries".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **531** Páginas, inicial: 232 final: 237 Fecha: 2006
Factor de impacto: 2.522 (Q2-72/199 Pharmacology & Pharmacy-Scie) Nº citaciones: 21

Autores: **Hernández M**, Barahona MV, Recio P, Bustamante S, Benedito S, Rivera L, García-Sacristán A, Prieto D, Orensanz LM.
Título: "PACAP 38 is involved in the non-adrenergic non-cholinergic inhibitory neurotransmission in the pig urinary bladder neck".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **25** Páginas, inicial: 490 final: 497 Fecha: 2006
Factor de impacto: 2.688 (Q1-15/55 Urology & Nephrology-Scie) Nº citaciones: 18

Autores: **Hernández M**, Barahona MV, Recio P, Benedito S, Martínez AC, Rivera L, García-Sacristán A, Prieto D, Orensanz LM.
Título: "Neuronal and smooth muscle receptors involved in the PACAP- and VIP-induced relaxations of the pig urinary bladder neck".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **149** Páginas, inicial: 100 final: 109 Fecha: 2006
Factor de impacto: 3.825 (Q1-39/199 Pharmacology & Pharmacy-Scie) Nº de citaciones: 31

Autores: **Hernández M**, Recio P, Barahona MV, Bustamante S, Peña L, Martínez AC, García-Sacristán A, Prieto D, Orensanz LM.
Título: "Prejunctional α_2-adrenoceptors modulation of the nitrergic transmission in the pig urinary bladder neck".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **26** Páginas, inicial: 578 final: 583 Fecha: 2007
Factor de impacto: 2.671 (Q1-13/55 Urology & Nephrology-Scie) Nº citaciones: 19

Autores: Novella, S., Martínez, A. C., Pagán, R. M., **Hernández M**, García Sacristán A, González-Pinto A, González-Santos JM, Benedito S.
Título: "Plasma levels and vascular effects of vasopresin in patients undergoing coronary artery bypass grafting".
Revista: **Eur J Cardiothorac Surg** ISSN: 1010-7940
Clave: **A** Volumen: **32** Páginas, inicial: 69 final: 76 Fecha: 2007
Factor de impacto: 2.011 (Q2- Cardiac & Cardiovasc Systems-Scie) Nº citaciones: 15

Autores: Sánchez A, Villalba N, Martínez AC, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Mechanisms of the relaxant effect of vardenafil in rat penile arteries".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **586** Páginas, inicial: 283 final: 287 Fecha: 2008
Factor de impacto: 2.787 (Q2-78/219 Pharmacology & Pharmacy-cie) Nº citaciones: 0

Autores: Recio P, Orensanz LM, Martínez MP, Navarro-Dorado J, Bustamante S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Noradrenergic vasoconstriction of pig prostatic small arteries".
Revista: **Naunyn Schmiedeberg´s Arch Pharmacol** ISSN: 0028-1298
Clave: **A** Volumen: **376** Páginas, inicial: 397 final: 406 Fecha: 2008
Factor de impacto: 2.830 (Q2- Pharmacology & Pharmacy-Scie) Nº citaciones: 12

Autores: **Hernández M**, Barahona MV, Recio P, Navarro-Dorado J, Bustamante S, Benedito S, García-Sacristán A, Prieto D, Orensanz LM.
Título: "Role of neuronal voltage-gated K^+ channels in the modulation of the nitrergic neurotransmission of the pig urinary bladder neck".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **153** Páginas, inicial: 1251 final: 1258 Fecha: 2008
Factor de impacto: 4.902 (Q1-18/219 Pharmacology & Pharmacy-Scie) Nº de citaciones: 19

Autores: Navarro-Dorado J, Orensanz LM, Recio P, Bustamante S, Benedito S, Martínez AC, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in testosterone-induced vasodilatation in pig prostatic small arteries".
Revista: **Life Sci** ISSN: 0024-3205
Clave: **A** Volumen: **83** Páginas, inicial: 569 final: 573 Fecha: 2008
Factor de impacto: 2.583 (Q2- Pharmacology & Pharmacy-Scie) Nº citaciones: 24

Autores: Recio P, Barahona MV, Orensanz LM, Bustamante S, Martínez AC, Benedito S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "5-hydroxytryptamine induced relaxation in the pig urinary bladder neck".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **157** Páginas, inicial: 271 final: 280 Fecha: 2009
Factor de impacto: 5.204 (Q1-19/237 Pharmacology & Pharmacy-Scie) Nº de citaciones: 22

Autores: Villalba N, Martínez MP, Briones AM, Sánchez A, Salaices M, García-Sacristán A, **Hernández M**, Benedito S, Prieto D.
Título: "Differential structural and functional changes in penile and coronary arteries from obese Zucker rats".
Revista: **Am J Physiol Heart Circ Physiol** ISSN:
Clave: **A** Volumen: **297** Páginas, inicial: H696 final: H707 Fecha: 2009
Factor de impacto: 3.712 (Q1-17/95 Cardiac & Cardiovascular Systems-Scie) Nº de citaciones: 36

Autores: **Hernández M**, Knight GE, Wildman SS, Burnstock G.
Título: "Role of ATP and related purines in the inhibitory neurotransmission of the pig urinary bladder neck".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **157** Páginas, inicial: 1463 final: 1473 Fecha: 2009
Factor de impacto: 5.204 (Q1-19/237 Pharmacology & Pharmacy-Scie) Nº de citaciones: 16

Autores: Pagán RM, Martínez AC, Martínez MP, **Hernández M**, García-Sacristán A, Correa C, Prieto D, Benedito S.
Título: "Endothelial and potassium channel dependent modulation of noradrenergic vasoconstriction in the pig radial artery".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **616** Páginas, inicial: 166 final: 174 Fecha: 2009
Factor de impacto: 2.585 (Q2-102/237 Pharmacology & Pharmacy-Scie) Nº citaciones: 8

Autores: Martínez AC, Pagán RM, Prieto D, Recio P, García-Sacristán A, **Hernández M**, Benedito S.
Título: "Modulation of noradrenergic neurotransmission in isolated rat radial artery".
Revista: **J Pharmacol Sci** ISSN: 1347-8613
Clave: **A** Volumen: **111** Páginas, inicial: 299 final: 311 Fecha: 2009
Factor de impacto: 2.176 (Q3-126/237 Pharmacology & Pharmacy-Scies) Nº citaciones: 8

Autores: Sánchez A, Contreras C, Villaba N, Martínez P, Martínez AC, Briones A, Salaices M, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Altered arachidonic acid metabolism via COX-1 and COX-2 contributes to the endothelial dysfunction of penile arteries from obese Zucker rats".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **159** Páginas, inicial: 604 final: 616 Fecha: 2010
Factor de impacto: 4.925 (Q1-19/252 Pharmacology & Pharmacy-Scie) Nº citaciones: 13

Autores: Bustamante S, Orensanz LM, Recio P, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Functional evidence of nitrergic neurotransmission in the human urinary bladder neck".
Revista: **Neurosci Lett** ISSN: 0304-3940
Clave: **A** Volumen: **477** Páginas, inicial: 91 final: 94 Fecha: 2010
Factor de impacto: 2.055 (Q3-161/239 Neurosciences- Scie) Nº de citaciones: 11

Autores: Sánchez A, Recio P, Orensanz LM, Bustamante S, Navarro-Dorado J, Climent B, Benedito S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in the effects of endothelin-1 in pig prostatic small arteries".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **640** Páginas, inicial: 190 final: 196 Fecha: 2010
Factor de impacto: 2.737 (Q2-90/252 Pharmacology & Pharmacy-Scie) Nº de citaciones: 9

Autores: Pagán RM, Prieto D, **Hernández M**, Correa C, García-Sacristán A, Benedito S, Martínez AC.
Título: "Regulation of NO-dependent acetylcholine relaxation by K^+ channels and the Na^+-K^+ ATPase pump in porcine internal mammary artery".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **641** Páginas, inicial: 61 final: 66 Fecha: 2010
Factor de impacto: 2.737 (Q2- Pharmacology & Pharmacy-Scie) Nº citaciones: 9

Autores: Sánchez A, Contreras C, Martínez P, Villalba N, Benedito S, García-Sacristán A, Salaices M, **Hernández M**, Prieto D.
Título: "Enhanced cyclooxygenase 2-mediated vasorelaxation in coronary arteries from insulin-resistant obese Zucker rats".
Revista: **Atherosclerosis** ISSN: 0021-9150
Clave: **A** Volumen: **213** Páginas, inicial: 392 final: 399 Fecha: 2010
Factor de impacto: 4.086 (Q1-12/68 Peripheral Vascular Disease-Scie) Nº citaciones: 19

Autores: Martínez-Sáenz A, Barahona MV, Orensanz LM, Recio P, Bustamante S, Benedito S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in the nitric oxide independent inhibitory neurotransmission to the pig urinary bladder neck".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **30** Páginas, inicial: 151 final: 157 Fecha: 2011
Factor de impacto: 2.958 (Q1-11/73 Urology & Nephrology-Scie) Nº de citaciones: 9

Autores: Ribeiro ASF, Fernandes VS, Orensanz LM, Recio P, Martínez-Sáenz A, Arteaga JL, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in the adenosine-induced vasorelaxation to the pig prostatic small arteries".
Revista: **Purinergic Signal** ISSN: 1573-9538
Clave: **A** Volumen: **7** Páginas, inicial: 413 final: 425 Fecha: 2011
Factor de impacto: 3.164 (Q2-101/244 Neurosciences-Scie) Nº de citaciones: 4

Autores: Martínez-Sáenz A, Recio P, Orensanz LM, Fernandes VS, Martínez MP, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Role of calcitonin gene-related peptide in inhibitory neurotransmission to the pig urinary bladder neck".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **186** Páginas, inicial: 728 final: 735 Fecha: 2011
Factor de impacto: 3.746 (Q1-11/73 Urology & Nephrology-Scie) Nº de citaciones: 6

Autores: Fernandes VS, Martínez-Sáenz A, Recio P, Ribeiro ASF, Sánchez A, Martínez MP, García-Sacristán A, Orensanz LM, Prieto D, **Hernández M**.
Título: "Mechanisms involved in the nitric oxide-induced vasorelaxation in pig prostatic small arteries".
Revista: **Naunyn Schmiedeberg´s Arch Pharmacol** ISSN: 0028-1298
Clave: **A** Volumen: **384** Páginas, inicial: 245 final: 253 Fecha: 2011
Factor de impacto: 2.647 (Q2-101/261 Pharmacology & Pharmacy-Scie) Nº de citaciones: 3

Autores: Villalba N, Contreras C, **Hernández M**, García-Sacristán A, Prieto D.
Título: "Impaired Ca^{2+} handling in penile arteries from prediabetic Zucker rats: involvement of Rho kinase".
Revista: **Am J Physiol Heart Circ Physiol** ISSN:
Clave: **A** Volumen: **300** Páginas, inicial: H2044 final: H2053 Fecha: 2011
Factor de impacto: 3.708 (Q1- Peripheral Vascular Disease-Scie) Nº de citaciones: 7

Autores: Arteaga JL, Orensanz LM, Martínez P, Barahona MV, Recio P, Martínez-Sáenz A, Fernandes VS, Ribeiro ASF, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in endothelin-1-induced contraction of the pig urinary bladder neck".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **31** Páginas, inicial: 156 final: 161 Fecha: 2012
Factor de impacto: 2.674 (Q1-20/73 Urology & Nephrology-Scie) Nº de citaciones: 3

Autores: Fernandes VS, Barahona MV, Recio P, Martínez-Sáenz A, Ribeiro ASF, Contreras C, Martínez AC, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in testosterone-induced relaxation to the pig urinary bladder neck".
Revista: **Steroids** ISSN: 0039-128X
Clave: **A** Volumen: **77** Páginas, inicial: 394 final: 402 Fecha: 2012
Factor de impacto: 2.803 (Q2-57/122 Endocrinology & Metabolism-Scie) Nº de citaciones: 10

Autores: Pagán RM, Martínez AC, **Hernández M**, Martínez MP, García-Sacristán A, Correa C, Novella S, Hermenegildo C, Prieto D, Benedito S.
Título: "Endothelial and neural factors functionally involved in the modulation of noradrenergic vasoconstriction in healthy pig internal mammary artery".
Revista: **Biochem Pharmacol** ISSN: 0006-2952
Clave: **A** Volumen: **83** Páginas, inicial: 882 final: 892 Fecha: 2012
Factor de impacto: 4.576 (Q1-29/261 Pharmacology & Pharmacy-Scie) Nº citaciones: 2

Autores: Sánchez A, Contreras C, Martínez MP, Climent B, Benedito S, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Role of neural NO synthase (nNOS) uncoupling in the dysfunctional nitrergic vasorelaxation of penile arteries from insulin-resistant obese Zucker rats".
Revista: **PLoS One** ISSN: 1932-6203
Clave: **A** Volumen: **7** Páginas, inicial: e36027 final: Fecha: 2012
Factor de impacto: 3.730 (Q1- Multidisciplinary Sciences-Scie) Nº citaciones: 23

Autores: Arteaga JL, Orensanz LM, Martínez MP, Barahona MV, Martínez-Sáenz A, Fernandes VS, Bustamante S, Carballido J, Benedito S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Endothelin ET_B receptors are involved in the relaxation to the pig urinary bladder neck".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **31** Páginas, inicial: 688 final: 694 Fecha: 2012
Factor de impacto: 2.674 (Q1-20/73 Urology & Nephrology-Scie) Nº de citaciones: 1

Autores: Fernandes VS, Ribeiro ASF, Martínez MP, Orensanz LM, Barahona MV, Martínez-Sáenz A, Recio P, Benedito S, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Endogenous hydrogen sulfide plays a powerful role in the inhibitory neurotransmission to the pig bladder neck".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **189** Páginas, inicial: 1567 final: 1573 Fecha: 2013
Factor de impacto: 3.753 (Q1-9/77 Urology & Nephrology-Scie) Nº de citaciones: 9

Autores: Fernandes VS, Ribeiro ASF, Barahona MV, Orensanz LM, Martínez-Sáenz A, Recio P, Martínez AC, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Hydrogen sulfide-mediated inhibitory neurotransmission to the pig bladder neck: Role of K_{ATP} channels, sensory nerves and calcium signaling".
Revista: **J Urol** ISSN: 0022-5347
Clave: **A** Volumen: **190** Páginas, inicial: 746 final: 756 Fecha: 2013
Factor de impacto: 3.753 (Q1-9/77 Urology & Nephrology-Scie) Nº de citaciones: 13

Autores: Contreras C, Sánchez A, Martínez P, Climent B, Benedito S, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Impaired endothelin calcium signaling coupled to endothelin type B receptors in penile arteries from insulin-resistant obese Zucker rats".
Revista: **J Sex Med** ISSN: 1743-6095
Clave: **A** Volumen: **10** Páginas, inicial: 2141 final: 2153 Fecha: 2013
Factor de impacto: 3.150 (Q1-16/77 Urology & Nephrology-Scie) Nº citaciones: 8

Autores: Ribeiro ASF, Fernandes VS, Martínez MP, Martínez-Sáenz A, Pazos MR, Orensanz LM, Recio P, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Neuronal and non-neuronal bradykinin receptors are involved in the contraction and/or relaxation to the pig bladder neck smooth muscle".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **33** Páginas, inicial: 558 final: 565 Fecha: 2014
Factor de impacto: 2.873 (Q1-19/78 Urology & Nephrology-Scie) Nº de citaciones: 3

Autores: Ribeiro AS, Fernandes VS, Martínez-Sáenz A, Martínez P, Barahona MV, Orensanz L, Blaha I, Serrano-Margüello D, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Powerful relaxation of phosphodiesterase type 4 inhibitor rolipram in the pig and human bladder neck".
Revista: **J Sex Med** ISSN: 1743-6095
Clave: **A** Volumen: **11** Páginas, inicial: 930 final: 941 Fecha: 2014
Factor de impacto: 3.151 (Q1-18/78 Urology & Nephrology-Scie) Nº de citaciones: 2

Autores: Fernandes VS, Ribeiro AS, Martínez-Sáenz A, Blaha I, Serrano-Margüello D, Recio P, Martínez C, Bustamante S, Vázquez-Alba D, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Underlying mechanisms involved in progesterone-induced relaxation to the pig bladder neck".
Revista: **Eur J Pharmacol** ISSN: 0014-2999
Clave: **A** Volumen: **723** Páginas, inicial: 246 final: 252 Fecha: 2014
Factor de impacto: 2.532 (Q2-113/255 Pharmacology & Pharmacy-Scie) Nº de citaciones: 1

Autores: Sánchez A, Contreras C, Martínez P, Muñoz M, Martínez C, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Endothelin (ETA) receptors are involved in augmented adrenergic vasoconstriction and blunted nitric oxide-mediated relaxation of penile arteries from insulin-resistant obese Zucker rats".
Revista: **J Sex Med** ISSN: 1743-6095
Clave: **A** Volumen: **11** Páginas, inicial: 1463 final: 1474 Fecha: 2014
Factor de impacto: 3.151 (Q1-18/78 Urology & Nephrology-Scie) Nº de citaciones: 0

Autores: Fernandes VS Ribeiro ASF, Martínez MP, López-Oliva-ME, Barahona MV, Orensanz LM, Martínez-Sáenz A, Recio P, Benedito S, Bustamante S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Hydrogen sulfide plays a key role in the inhibitory neurotransmission to the pig intravesical ureter".
Revista: **Plos One** ISSN: 1932-6203
Clave: **A** Volumen: **9** Páginas, inicial: e113580 final: Fecha: 2014
Factor de impacto: 3.234 (Q1-9/57 Multidisciplinary Sciences-Scie) Nº de citaciones: 6

Autores: Sánchez A, Martínez P, Muñoz M, Benedito S, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Endothelin-1 contributes to endothelial dysfunction and enhanced vasoconstriction through augmented superoxide production in penile arteries from insulin-resistant obese rats: role of ET_A and ET_B receptors".
Revista: **Br J Pharmacol** ISSN: 0007-1188
Clave: **A** Volumen: **171** Páginas, inicial: 5682 final: 5695 Fecha: 2014
Factor de impacto: 4.842 (Q1-24/255 Pharmacology & Pharmacy-Scie) Nº citaciones: 9

Autores: Martínez AC, **Hernández M**, Novella S, Martínez MP, Pagán RM, Hermenegildo C, García-Sacristán A, Prieto D, Benedito S.
Título: "Diminished Neurogenic Femoral Artery Vasoconstrictor Response in a Zucker Obese Rat Model: Differential Regulation of NOS and COX Derivatives".
Revista: **PLoS One** ISSN: 1932-6203
Clave: **A** Volumen: **9** Páginas, inicial: e106372 final: Fecha: 2014
Factor de impacto: 3.234 (Q1-9/57 Multidisciplinary Sciences-Scie) Nº citaciones: 3

Autores: Muñoz M, Sánchez A, Martínez MP, Benedito S, López-Oliva ME, García-Sacristán A, **Hernández M**, Prieto D.
Título: "COX-2 is involved in vascular oxidative stress and endothelial dysfunction of renal interlobar arteries from obese Zucker rats".
Revista: **Free Radic Biol Med** ISSN: 0891-5849
Clave: **A** Volumen: **84** Páginas, inicial: 77 final: 90 Fecha: 2015
Factor de impacto: 5.784 (Q1-14/133 Endocrinology & Metabolism-Scie) Nº citaciones: 7

Autores: Ribeiro ASF, Fernandes VS, Martínez MP, López Oliva ME, Barahona MV, Recio P, Blaha I, Orensanz LM, Bustamante S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Pre- and post-junctional bradykinin B_2 receptors regulate smooth muscle tension to the pig intravesical ureter".
Revista: **Neurourol Urodyn** ISSN: 0733-2467
Clave: **A** Volumen: **35** Páginas, inicial: 115 final: 121 Fecha: 2016
Factor de impacto: 3.560 (Q1-17/76 Urology & Nephrology-Scie) Nº de citaciones: 2

Autores: Fernandes VS, **Hernández M**.
Título: "The role of nitric oxide and hydrogen sulfide in urinary tract function".
Revista: **Basic Clin Pharmacol Toxicol** ISSN: 1742-7835 **MiniReview**
Clave: **R** Volumen: **119** Páginas, inicial: 34 final: 41 Fecha: 2016
Factor de impacto: 3.176 (Q2-75/256 Pharmacology & Pharmacy-Scie) Nº de citaciones: 3

Autores: Blaha I, Recio P, Martínez MP, López-Oliva ME, Ribeiro AS, Agis-Torres Á, Martínez AC, Benedito S, García-Sacristán A, Fernandes VS, **Hernández M**.
Título: "Impaired excitatory neurotransmission in the urinary bladder from the obese Zucker rat: Role of cannabinoid receptors".
Revista: **PLoS One** ISSN: 1932-6203
Clave: **A** Volumen: **11(6)** Páginas, inicial: e0157424 final: Fecha: 2016
Factor de impacto: 2.806 (Q1-15/64 Multidisciplinary Sciences-Scie) Nº de citaciones: 0

Autores: Fernandes VS, Recio P, López-Oliva E, Martínez MP, Ribeiro AS, Barahona MV, Martínez AC, Benedito S, Agis-Torres A, Cabañero A, Muñoz GM, García-Sacristán A, Orensanz LM, **Hernández M**.
Título: "Role of endogenous hydrogen sulfide in nerve-evoked relaxation of pig terminal bronchioles".
Revista: **Pulm Pharmacol Ther** ISSN: 1094-5539
Clave: **A** Volumen: **41** Páginas, inicial: 1 final: 10 Fecha: 2016
Factor de impacto: 2.525 (Q2-32/59 Respiratory System-Scie) Nº de citaciones: 0

Autores: Muñoz M, López-Oliva ME, Pinilla E, Martínez MP, Sánchez A, Rodríguez C, García-Sacristán A, **Hernández M**, Rivera L, Prieto D.
Título: "CYP epoxygenase-derived H2O2 is involved in the endothelium-derived hyperpolarization (EDH) and relaxation of intrarenal arteries".
Revista: **Free Radic Biol Med** ISSN: 0891-5849
Clave: **A** Volumen: **106** Páginas, inicial: 168 final: 183 Fecha: 2017
Factor de impacto: 6.020 (Q1-17/143 Endocrinology & Metabolism-Scie) Nº de citaciones: 1

Autores: Agis-Torres A, Recio P, López-Oliva ME, Martínez MP, Barahona MV, Benedito S, Bustamante S, Jiménez-Cidre MA, García-Sacristán A, Prieto D, Fernandes VS, **Hernández M**.
Título: "Phosphodiesterase type 4 inhibition enhances nitric oxide- and hydrogen sulfide-mediated bladder neck inhibitory neurotransmission".
Revista: **Sci Rep** ISSN: 2045-2322
Clave: **A** Volumen: **8** Páginas, inicial: 4711 final: Fecha: 2018
Factor de impacto: 4.122 (Q1-12/64 Multidisciplinary Sciences) Nº de citaciones: 0

Autores: Muñoz M, Martínez MP, López-Oliva ME, Rodríguez C, Corbacho C, Carballido J, García-Sacristán A, **Hernández M**, Rivera L, Sáenz-Medina J, Prieto D.
Título: "Hydrogen peroxide derived from NADPH oxidase 4- and 2 contributes to the endothelium-dependent vasodilatation of intrarenal arteries".
Ref. ☒ revista: **Redox Biol** ISSN: 2213-2317
Clave: **A** Volumen: **19** Páginas, inicial: 92 final: 104 Fecha: 2018
Factor de impacto: 7.126 (Q1-31/292 Biochemistry & Molecular Biology-Scie) Nº de citaciones: 0

Autores: Blaha I, López-Oliva ME, Martínez MP, Recio P, Agis-Torres A, Martínez AC, Benedito S, García-Sacristán A, Prieto D, Fernandes VS, **Hernández M**.
Título: "Bladder dysfunction in obese Zucker rat: Role of TRPA1 channels, oxidative stress and hydrogen sulfide".
Ref. ☒ revista: **Oxid Med Cell Longev** (En prensa) ISSN:
Clave: Volumen: Páginas, inicial: final: Fecha:
Factor de impacto: 4.936 (Q1-45/398 Biochemistry -Scie) Nº de citaciones: 0

Participación en contratos de I+D de especial relevancia con Empresas y/o Administraciones (nacionales y/o internacionales)

Título del contrato/proyecto:

Tipo de contrato:
Empresa/Administración financiadora:
Entidades participantes:
Duración, desde: hasta:
Investigador responsable:
Número de investigadores participantes:
PRECIO TOTAL DEL PROYECTO:

Nota: Si necesita más casos, añádalos utilizando las funciones de copiar y pegar con el 2º caso.

Patentes y Modelos de utilidad

Inventores (p.o. de firma):
Título:

N. de solicitud: País de prioridad: Fecha de prioridad:

Entidad titular:
Países a los que se ha extendido:
Empresa/s que la están explotando:

Nota: Si necesita más casos, añádalos utilizando las funciones de copiar y pegar con el 2º caso.

Estancias en Centros extranjeros
(estancias continuadas superiores a un mes)

CLAVE: D = doctorado, P = postdoctoral, I = invitado, C = contratado, O = otras (especificar).

Centro: Departamento de Farmacología de la Universidad de Aarhus.
Localidad: Aarhus País: Dinamarca Fecha: 1995 Duración (semanas): 12
Tema: Acción de donantes de óxido nítrico de nueva síntesis en las vías aéreas de pequeño calibre.
Clave: P

Centro: Departamento de Farmacología de la Universidad de Aarhus.
Localidad: Aarhus País: Dinamarca Fecha: 1997 Duración (semanas): 4
Tema: Acción de donantes de óxido nítrico de nueva síntesis en las vías aéreas de pequeño calibre.
Clave: P

Centro: Autonomic Neuroscience Centre, University College of London.
Localidad: Londres País: Reino Unido Fecha: 2008 Duración (semanas): 16
Tema: Neurotransmisión purinérgica en el Tracto Urinario Inferior.
Clave: P

Nota: Si necesita más casos, añádalos utilizando las funciones de copiar y pegar con el 2º caso.

Contribuciones a Congresos (6 últimos años)

Autores: Sánchez A, Villalba N, Monroy M, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Mechanisms of the relaxant effect of vardenafil in rat penile arteries".
Tipo de participación: Comunicación oral
Congreso: **10th Congress of the European Society for Sexual Medicine**
Publicación: **J Sex Med 5** (2): MP-02-090, 2008.
Lugar celebración: Lisboa, Portugal. Fecha: 25-28 Noviembre, 2007

Autores: Prieto D, Villalba N, Sánchez A, **Hernández M**, García-Sacristán A, Benedito S.
Título: "Differential endothelial dysfunction in penile and coronary arteries during metabolic syndrome".
Tipo de participación: Comunicación oral
Congreso: **10th Congress of the European Society for Sexual Medicine**
Publicación: **J Sex Med 5** (2): MP-05-132, 2008.
Lugar celebración: Lisboa, Portugal. Fecha: 25-28 Noviembre, 2007

Autores: Sánchez A, Contreras C, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Altered arachidonic acid metabolism in penile arteries during metabolic syndrome".
Tipo de participación: Comunicación oral
Congreso: **25th Conference of the European Society for Microcirculation**
Publicación: **J Vasc Res 45 (S2):** PDO-87, 2008.
Lugar celebración: Budapest, Hungría. Fecha: 26-29 Agosto, 2008

Autores: Villalba N, Martínez MP, Briones AM, Sánchez A, Salaices M, García-Sacristán A, **Hernández M**, Benedito S, Prieto D.
Título: "Differential structural and functional changes of penile and coronary arteries in metabolic syndrome".
Tipo de participación: Comunicación oral
Congreso: **25th Conference of the European Society for Microcirculation**
Publicación: **J Vasc Res 45 (S2):** PDO-88, 2008.
Lugar celebración: Budapest, Hungría. Fecha: 26-29 Agosto, 2008

Autores: Contreras C, Sánchez A, Benedito S, Raposo R, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Vascular actions of insulin in coronary arteries from obese Zucker rats".
Tipo de participación: Póster
Congreso: **XXXV Congreso Sociedad Española de Ciencias Fisiológicas (SECF)**
Publicación: **Acta Physiol 195 (Suppl. 667):** P133, 2009.
Lugar celebración: Valencia. Fecha: 17-20 Febrero, 2009

Autores: Sánchez A, Contreras C, Villalba N, Martínez MP, Martínez AC, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Impaired arachidonic acid metabolism is involved in the endothelial dysfunction of penile arteries from obese Zucker rats".
Tipo de participación: Póster
Congreso: **XXXV Congreso Sociedad Española de Ciencias Fisiológicas (SECF)**
Publicación: **Acta Physiol 195 (Suppl. 667):** P134, 2009.
Lugar celebración: Valencia. Fecha: 17-20 Febrero, 2009

Nota: Si necesita más casos, añádalos utilizando las funciones de copiar y pegar con el 2º caso.

Autores: Villalba N, Martínez MP, Briones AM, Sánchez A, Salaices M, García-Sacristán A, **Hernández M**, Benedito S, Prieto D.
Título: "Vascular remodelling correlates with severe endothelial dysfunction in obese Zucker rats".
Tipo de participación: Póster
Congreso: **XXXV Congreso Sociedad Española de Ciencias Fisiológicas (SECF)**
Publicación: **Acta Physiol 195 (Suppl. 667):** P145, 2009.
Lugar celebración: Valencia. Fecha: 17-20 Febrero, 2009

Autores: Bustamante S, Recio P, Orensanz LM, Sánchez A, Benedito S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Mechanisms involved in the nitric oxide-induced vasodilatation in the prostatic resistance arteries".
Tipo de participación: Póster
Congreso: **XXXV Congreso Sociedad Española de Ciencias Fisiológicas (SECF)**
Publicación: **Acta Physiol 195 (Suppl. 667):** P146, 2009.
Lugar celebración: Valencia. Fecha: 17-20 Febrero, 2009

Autores: Bustamante S, Orensanz LM, Recio P, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Non adrenergic, non cholinergic, non nitrergic relaxation in pig urinary bladder neck: A therapeutical approach in type III stress urinary incontinence".
Tipo de participación: Póster
Congreso: **39th Annual Meeting of the International Continence Society,**
Publicación:
Lugar celebración: San Francisco, CA, Estados Unidos. Fecha: 29 Septiembre-3 Octubre, 2009

Autores: Villalba N, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Impaired Ca^{2+} handling in penile arteries from prediabetic zucker rats: Involvement of Rho-kinase".
Tipo de participación: Comunicación oral
Congreso: **WorldPharma2010 (16th World Congress on Basic and Clinical Pharmacology)**
Publicación: **Basic Clin Pharmacol Toxicol 107**(Suppl. 1): 162-692
Lugar celebración: Copenhague, Dinamarca. Fecha: 17-23 Julio, 2010

Autores: Sánchez A, Contreras N, Villalba N, Martínez P, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Differential COX-2-mediated arachidonic acid metabolism in coronary and penile arteries from prediabetic obese Zucker rats".
Tipo de participación: Comunicación oral
Congreso: **WorldPharma2010 (16th World Congress on Basic and Clinical Pharmacology)**
Publicación: **Basic Clin Pharmacol Toxicol 107**(Suppl. 1): 162-692
Lugar celebración: Copenhague, Dinamarca. Fecha: 17-23 Julio, 2010

Autores: Martínez-Sáenz A, Orensanz LM, Recio P, Bustamante S, Benedito S, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Role of Na^+-K^+ ATP-in the nitric oxide independent relaxation in pig urinary bladder neck".
Tipo de participación: Póster
Congreso: **WorldPharma2010 (16th World Congress on Basic and Clinical Pharmacology)**
Publicación: **Basic Clin Pharmacol Toxicol 107**(Suppl. 1): 162-692
Lugar celebración: Copenhague, Dinamarca. Fecha: 17-23 Julio, 2010

Autores: Ribeiro ASF, Fernandes VS, Martínez-Sáenz A, Recio P, Martínez AC, García-Sacristán A, Orensanz LM, Prieto D, **Hernández M**.
Título: "Mecanismos involucrados en la relajación inducida por la adenosina en las arterias prostáticas del cerdo".
Tipo de participación: Póster
Congreso: **XIX FARMADRID 2010**
Publicación:
Lugar celebración: Madrid. Fecha: 3-5 Julio, 2010

Autores: Fernandes VS, Martínez-Sáenz A, Recio P, Ribeiro ASF, Sánchez A, García-Sacristán A, Orensanz LM, Prieto D, **Hernández M**.
Título: "Vasorelajación inducida por óxido nítrico en las arterias prostáticas del cerdo".
Tipo de participación: Póster
Congreso: **XIX FARMADRID 2010**
Publicación:
Lugar celebración: Madrid. Fecha: 3-5 Julio, 2010

Autores: Alonso-Zazo FJ, Fernandes VS, **Hernández M**.
Título: "Relajación inducida por la progesterona en el cuello de la vejiga del cerdo".
Tipo de participación: Póster
Congreso: **V Congreso Nacional de Investigación para Alumnos de Pregrado en Ciencias de la Salud 2011**.
Publicación:
Lugar celebración: Madrid. Fecha: 12-15 Junio, 2011

Autores: Sánchez A, Contreras C, Martínez AC, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Impaired neural nitric oxide (NO)-mediated relaxations in prediabetic penile arteries from obese Zucker rats".
Tipo de participación: Póster
Congreso: **10th International Symposium on Resistance Arteries**
Publicación:
Lugar celebración: Rebild, Dinamarca. Fecha: 8-12 Mayo, 2011

Autores: Contreras C, Sánchez A, Climent B, García-Sacristán A, **Hernández M**, Benedito S, Prieto D.
Título: "Preserved endothelin (ET) vasoconstriction but changes in ET receptor function and calcium handling in penile arteries from obese Zucker rats".
Tipo de participación: Póster
Congreso: **10th International Symposium on Resistance Arteries**
Publicación:
Lugar celebración: Rebild, Dinamarca. Fecha: 8-12 Mayo, 2011

Autores: Contreras C, Sánchez A, Villalba N, García-Sacristán A, **Hernández M**, Prieto D.
Título: "Receptor-selective impairment of Ca^{2+} handling in penile arteries from obese Zucker rats".
Tipo de participación: Póster
Congreso: **10th International Symposium on Resistance Arteries**
Publicación:
Lugar celebración: Rebild, Dinamarca. Fecha: 8-12 Mayo, 2011

Autores: Fernandes VS, Bustamante S, Ribeiro ASF, Orensanz LM, Martínez-Sáenz A, Recio P, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Muscle bradykinin B2 receptors are involved in the contraction to the pig bladder neck".
Tipo de participación: Comunicación oral
Congreso: **APU2011 (Associação Portuguesa de Urologia)**.
Lugar celebración: Ofir, Portugal. Fecha: 16-18 Junio, 2011

Autores: Carballido J, Bustamante S, Vázquez D, Martínez-Sáenz A, Ribeiro ASF, Fernandes VS, Recio P, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Reinstauración de la funcionalidad vesical en cerdos con lesión medular tratados con terapia celular: Estudio preliminar".
Tipo de participación: Póster
Congreso: **LXXVII Congreso Nacional de Urología**
Publicación: **Actas Urol Esp 36** (1): P 236
Lugar celebración: Vigo. Fecha: 13-16 Junio, 2012

Autores: Bustamante S, Arteaga JL, Orensanz LM, Martínez MP, Martínez-Sáenz A, Fernandes VS, Ribeiro ASF, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Endothelin ETB receptors are involved in the relaxation of the pig urinary bladder neck: A possible therapeutical target for urinary incontinence produced by intrinsic sphincteric deficiency".
Tipo de participación: Comunicación oral
Congreso: **41st Annual Meeting of the International Continence Society (ICS2011).**
Lugar celebración: Glasgow, Escocia, Reino Unido. Fecha: 29 Agosto-2 Septiembre, 2011

Autores: Bustamante S, Fernandes VS, Ribeiro ASF, Martínez MP, Orensanz LM, Martínez-Sáenz A, Barahona MV, Recio P, Benedito S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Sulfuro de hidrógeno endógeno liberado desde nervios produce una potente relajación del cuello vesical".
Tipo de participación: Comunicación oral
Congreso: **XII Congreso de la Sociedad Iberoamericana de Neurourología y Uroginecología, SINUG**.
Lugar celebración: Cádiz. Fecha: 20-22 Septiembre, 2012

Autores: Ribeiro ASF, Fernandes VS, Bustamante S, Orensanz LM, Martínez-Sáenz A, Recio P, Vázquez D, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "The specific type 4 phosphodiesterase inhibitor rolipram activates large and intermediate conductance ca^{2+}-activated k^{+} channels in pig bladder neck: a possible therapeutical target for type iii stress urinary incontinence. .
Tipo de participación: Comunicación oral
Congreso: **42nd Annual Meeting of the International Continence Society, ICS**.
Lugar celebración: Pekín, China. Fecha: 15-19 Octubre, 2012

Autores: Martínez-Sáenz A, Bustamante S, Pazos MR, Martínez-Orgado J, Fernandes VS, Ribeiro ASF, Vázquez D, **Hernández M**, Carballido J
Título: "Estudios preliminares de las alteraciones funcionales de la vejiga urinaria asociadas a hipoxia isquémica cerebral: posible utilidad de la terapia con CBD".
Tipo de participación: Comunicación oral
Congreso: **Reunión Nacional del Grupo de Urología Funcional, Femenina y Urodinámica**.
Lugar celebración: Madrid. Fecha: 18-21 Abril, 2013

Autores: Ribeiro ASF, Fernandes VS, Martínez MP, Martínez-Sáenz A, Blaha I, Serrano-Margüello D, Recio P, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Acción dual de la bradicinina sobre la contractibilidad del cuello de la vejiga urinaria del cerdo".
Tipo de participación: Comunicación oral
Congreso: **XXII FARMADRID 2013**.
Lugar celebración: Madrid. Fecha: 3-5 Julio, 2013

Autores: Serrano-Margüello, Fernandes VS, Ribeiro ASF, Martínez-Sáenz A, Blaha I, Recio P, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Deterioro de la contractilidad colinérgica vesical en un modelo experimental de rata con síndrome metabólico".
Tipo de participación: Comunicación oral
Congreso: **XXII FARMADRID 2013**.
Lugar celebración: Madrid. Fecha: 3-5 Julio, 2013

Autores: Fernandes VS, Ribeiro ASF, Martínez MP, Blaha I, Serrano-Margüello D, Martínez-Sáenz A, Bustamante S, Vázquez-Alba D, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Role of hydrogen sulfide in the inhibitory neurotransmission to the pig intravesical ureter".
Tipo de participación: Comunicación oral
Congreso: **43rd Annual Meeting of the International Continence Society, ICS**.
Lugar celebración: Barcelona. Fecha: 26-30 Octubre, 2013

Autores: Ribeiro ASF, Blaha I, Fernandes VS, Serrano-Margüello D, Martínez-Sáenz A, Recio P, Vázquez-Alba D, Bustamante S, Carballido J, García-Sacristán A, Prieto D, **Hernández M**.
Título: "Impaired cholinergic excitatory neurotransmission of bladder in a model of insulin-resistant obese rat".
Tipo de participación: Comunicación oral
Congreso: **29th Annual European Association Urology (EAU) Congress**.
Lugar celebración: Estocolmo. Fecha: 11-15 Abril, 2014
Publicación: **Eur Urol Suppl 13 (1)**: e368, 2014

Autores: Pagán RM, Martínez AC, **Hernández M**, García-Sacristán A, Prieto D, Benedito S.
Título: "La activación de PPAR-gamma reduce la disfunción vascular asociada a la obesidad en la arteria carótida de ratas Zucker".
Tipo de participación: Comunicación oral
Congreso: **XXIII FARMADRID 2014**.
Lugar celebración: Madrid. Fecha: 3 Julio, 2014

Autores: Muñoz Picos M, López-Oliva Muñoz E, Sánchez Pina A, García-Sacristán A, **Hernández M**, Rivera L, Prieto D.
Título: "La vasodilatatción endotelial mediada por peróxido de hidrógeno está preservada en arterias renales en la obesidad".
Tipo de participación: Comunicación oral
Congreso: **XXIII FARMADRID 2014**.
Lugar celebración: Madrid. Fecha: 3 Julio, 2014

Autores: Blaha I, Recio P, Martínez MP, Fernandes VS, López-Oliva-ME, Ribeiro ASF, Bustamante S, Carballido J, Prieto D, García-Sacristán A, **Hernández M**.
Título: "Downregulation of prejunctional CB_1 and CB_2 cannabinoid receptors and $TRPV_1$ channels is involved in the impaired neurogenic contraction of bladder from insulin-resistant obese Zucker rat".
Tipo de participación: Comunicación oral
Congreso: **30th Annual European Association Urology (EAU) Congress**.
Lugar celebración: Madrid. Fecha: 20-24 Marzo, 2015
Publicación: **Eur Urol Suppl 14 (2)**: e794, 2015

Autores: Blaha I, López-Oliva-ME, Recio P, Agis-Torres A, Martínez AC, Benedito S, Bustamante S, García-Sacristán A, Prieto D, Fernandes VS, **Hernández M**.
Título: "Increased oxidative stress and reduced antioxidant enzyme activity contribute to the impaired excitatory neurotransmission of bladder in insulin-resistant obese Zucker rat".
Tipo de participación: Comunicación oral
Congreso: **47rd Annual Meeting of the International Continence Society, ICS**.
Lugar celebración: Florencia (Italia). Fecha: 12-15 Septiembre, 2017
Publicación: **Neurourol Urodyn Suppl 36 (3)**: S211, 2017

Autores: Muñoz Picos M, Martínez Sainz MP, López-Oliva Muñoz ME, Rodríguez Prados C, Corbacho Cuevas C, Carballido Rodríguez J, García-Sacristán A, **Hernández Rodríguez M**, Rivera de los Arcos L, Sáenz Medina J, Prieto Ocejo D,
Título: "NADPH oxidase4- and 2-derived hydrogen peroxide is involved in the endothelium-dependent vasodilatation of intrarenal arteries".
Tipo de participación: Comunicación oral O6-06
Congreso: **XXXIX Congress of the Spanish Society of Physiological Sciences**.
Lugar celebración: Cádiz. Fecha: 18-21 Septiembre, 2018
Publicación:

Autores: Muñoz Picos M, López-Oliva Muñoz ME, Martínez Sainz MP, Rodríguez Prados C, García-Sacristán A, Rivera de los Arcos L, **Hernández Rodríguez M**, Prieto Ocejo D,
Título: “NADPH oxidase4- and 2-derived hydrogen peroxide is involved in the endothelium-dependent vasodilatation of intrarenal arteries”.
Tipo de participación: Póster P2-20
Congreso: **XXXIX Congress of the Spanish Society of Physiological Sciences**.
Lugar celebración: Cádiz. Fecha: 18-21 Septiembre, 2018
Publicación:

Tesis Doctorales dirigidas

Título: “Implicación de las taquicininas en la actividad de la musculatura lisa del uréter intravesical”.
Doctorando: Salvador Bustamante Alarma
Universidad: Universidad Complutense de Madrid
Facultad / Escuela: Facultad de Medicina
Fecha: 29/09/1999
Calificación: Sobresaliente cum laude por unanimidad. Dicha Memoria recibió el Premio “Ponce de León” a la mejor Tesis Doctoral realizada en Urodinámica correspondiente al Año 1999 concedido por la Sociedad Española de Urología.

Título: “Papel del péptido relacionado con el gen de la calcitonina (CGRP) en la neurotransmisión inhibidora del cuello de la vejiga urinaria y su implicación en la fisiología vesical”.
Doctorando: Ana Martínez Sáenz
Universidad: Universidad Complutense de Madrid
Facultad / Escuela: Facultad de Farmacia
Fecha: 11/10/2011
Calificación: Sobresaliente cum laude por unanimidad.

Título: “Participación de las endotelinas en la función del cuello vesical y su implicación en la continencia urinaria”.
Doctorando: José Luis Arteaga Garrido
Universidad: Universidad Complutense de Madrid
Facultad / Escuela: Facultad de Farmacia
Fecha: 14/10/2011
Calificación: Sobresaliente cum laude por unanimidad.

Título: “Acción de la bradicinina y de los inhibidores de la fosfodiesterasa 4 en la fisiología de la micción”.
Doctorando: Ana Sofia Fernandes Ribeiro
Universidad: Universidad Complutense de Madrid
Facultad / Escuela: Facultad de Farmacia
Fecha: 14/10/2014
Calificación: Sobresaliente cum laude por unanimidad. Premio Extraordinario de Doctorado.

Título: “Acción del sulfuro de hidrógeno en la función de la vejiga urinaria”.
Doctorando: Vítor Samuel Leite Fernandes
Universidad: Universidad Complutense de Madrid
Facultad / Escuela: Facultad de Farmacia
Fecha: 8/5/2015
Calificación: Sobresaliente cum laude por unanimidad. Premio Extraordinario de Doctorado.

Participación en comités y representaciones internacionales

Título del Comité: Comité Editorial de la revista ***Neurourology and Urodynamics***
Impact Factor: 3.263 (18/76 Q1, *Urology & Nephrology*, 2017)
Entidad de la que depende: *International Continence Society* (ICS)
Tema: Miembro del *Editorial Board*
Fecha: 03/2011-continúa

Título del Comité: Comité Editorial de la revista ***Frontiers in Pharmacology***.
Impact Factor: 3.831 (48/261 Q1, *Pharmacology & Pharmacy*, 2017)
Entidad de la que depende:
Tema: Miembro del *Editorial Board*
Fecha: 09/2013-continúa

Título del Comité: ***International Continence Society*** (***ICS***).
Entidad de la que depende: *International Continence Society* (ICS).
Tema: The ICS Strategic Review: *Key Opinion Leader Consultation*
Fecha: 06/2013-continúa

Nota: Si necesita más casos, añádalos utilizando las funciones de copiar y pegar con el 2º caso.

Experiencia en organización de actividades de I+D

Organización de congresos, seminarios, jornadas, etc., científicos-tecnológicos

Título:
Tipo de actividad: Ambito:
Fecha:

Experiencia de gestión de I+D

Gestión de programas, planes y acciones de I+D

Título:

Tipo de actividad:
Fecha:

Otros méritos o aclaraciones que se desee hacer constar
(utilice únicamente el espacio equivalente a una página).

· **4 Sexenios de Investigación**: 1990-1995; 1996-2001; 2002-2007 y 2008-2013.
· **6 Quinquenios de Docencia**: 1988-1993; 1993-1998; 1998-2003; 2003-2008; 2008-2013 y 2013-2018.

· Participación en **5 Proyectos de Innovación y Mejora de la Calidad Docente**:
PIMCDs: 147/2009; 154/2010; 381/2015; 257/2016 y 292/2018, en 2 de ellos como director.

· Investigador del ***EURAD*** (*European Work Party on Resistance Artery Disease*).
· Evaluador ad hoc de la ***Swiss National Science Foundation***:
Proyectos nº: 3200-59´104.99 y 3200B0-120723.

Evaluador ad hoc en revistas SCI (183 artículos):

· Evaluador ad hoc de la revista *British Journal of Pharmacology*: 2005-BJP-0005-FP; 2007-BJP-0980-RP; 2009-BJP-0507-RP; 2009-BJP-0586-RP; 2009-BJP-1649-RP; 2010-BJP-0655-RP; 2012-BJP-0108-RP; 2013-BJP-1125-RP; 2014-BJP-1368-RP; 2014-BJP-1419-RP y 2018-BJP-0217-RP.
· Evaluador ad hoc de la revista *Journal of Pharmacology and Experimental Therapeutics*: JPET-2010-172130 y JPET-2010-178426.
· Evaluador ad hoc de la revista A*merican Journal of Physiology*: AJP-R-00493-2003 y AJP-RP-F-0526-2017.
· Evaluador ad hoc de la revista *Pharmacology*: Ms. 46041.
· Evaluador ad hoc de la revista *Frontiers in Pharmacology*: Ms. 6-02-12; Ms. 64199; Ms. 186030; Ms. 201957; Ms 216830; Ms. 282737; Ms. 301391; Ms. 309418, Ms. 309915; Ms. 318614; Ms. 319189; Ms.328207; Ms. 336857; Ms. 362238; Ms. 375521; Ms. 378082; Ms. 409757; Ms. 412698; Ms.417719; Ms 443801 y Ms. 477035.
· Evaluador ad hoc de la revista *European Journal of Pharmaceutical Sciences*: EJPS-D-11-00563.
· Evaluador ad hoc de la revista *European Journal of Pharmacology*: EJP-33592; EJP-33927; EJP-34180; EJP-34545; EJP-34973; EJP-35058; EJP-35588; EJP-35961; EJP-36845; EJP-37039; EJP-37478; EJP-37932; EJP-38292; EJP-38455; EJP-38630; EJP-38962; EJP-40044; EJP-40206; EJP-40329; EJP-40408; EJP-40748; EJP-41565; EJP-41947; EJP-42520; EJP-43340; EJP-43651, EJP-43919; EJP-44752, EJP-44866; EJP-45124; EJP-45181; EJP-45435; EJP-46631; EJP-47087; EJP-47411; EJP-47561; EJP-47822; EJP-47951; EJP-48400; EJP-48674 y EJP-48907.
· Evaluador ad hoc de la revista *Basic & Clinical Pharmacology & Toxicology*: BCPT-1655; BCPT-1788; BCPT-2725; BCPT-2914; BCPT-3238; BCPT-3690; BCPT-3871; BCPT-4147; BCPT-4291; BCPT-4768; BCPT-5239; BCPT-5635; BCPT-6033; BCPT-6417; BCPT-6516; BCPT-6686 y BCPT-7535.
· Evaluador ad hoc de la revista *Experimental and Molecular Medicine*: EMM2018047.
· Evaluador ad hoc de la revista *Cellular & Molecular Biology Letters.*
· Evaluador ad hoc de la revista *Cell & Tissue Research:* CTR-15-0209.
· Evaluador ad hoc de la revista *Life Sciences:* LFS-D-10-00474 y LFS-D-11-00025.
· Evaluador ad hoc de la revista *Pharmacological Research*:
YPHRS-D-06-00614 y YPHRS-D-11-00177.
· Evaluador ad hoc de la revista *Fundamental and Clinical Pharmacology*: FCP-PB497.
· Evaluador ad hoc de la revista *Tohoku Journal of Experimental Medicine:*
TJEM-20100418 y TJEM-20110257.
· Evaluador ad hoc de la revista *Journal of Physiology and Biochemistry*: Ms. 2512.
· Evaluador ad hoc de la revista *Bosnian Journal of Medical Sciences*: Ms. 2388-9378-1.
· Evaluador ad hoc de la revista *International Journal of Andrology*:
IJA-2006-0193; ANDR-2012-0002; ANDR-2013-0222; ANDR-2013-0253; ANDR-2013-0301; ANDR-2014-0039 y ANDR-2014-0260.
· Evaluador ad hoc de la revista *Naunyn-Schmiedeberg´s Archives of Pharmacology*:
NSAP-D-12-00105 y NSAP-D-12-00152.

· Evaluador ad hoc de la revista *Biomedicine & Pharmacotherapy:*
BIOPHA-2017-5366. BIOPHA-2019-813.
· Evaluador ad hoc de la revista *Neurourology and Urodynamics*: NAU-10-0101; NAU-10-0142; NAU-10-0157; NAU-10-0207; NAU-10-0251; NAU-10-0301; NAU-10-0315; NAU-11-0007; NAU-11-0027; NAU-11-0140; NAU-11-0172; NAU-11-0239; NAU-11-0268; NAU-11-0282; NAU-12-0028; NAU-12-0059; NAU-12-0118; NAU-12-0230; NAU-12-0304; NAU-13-0057; NAU-13-0186; NAU-13-0242; NAU-13-0287; NAU-13-0289; NAU-13-0363; NAU-14-0057; NAU-14-0132; NAU-14-0314; NAU-14-0363; NAU-14-0431; NAU-15-0086; NAU-15-0219; NAU-16-0305; NAU-19-0114 y NAU-19-0325.
· Evaluador ad hoc de la revista *British Journal of Urology*: BJU-2011-1422
· Evaluador ad hoc de la revista *Journal of Urology*: JU-5825; JU-11-93; JU-11-205; JU-13-1350; JU-14-513; JU-14-1158; JU-15-44; JU-15-400; JU-15-943; JU-15-1440; JU-15-1582 y JU-15-1807.
· Evaluador ad hoc de la revista *Plos One*: PONE-D-19-16154.
· Evaluador ad hoc de la revista *Urologia Internationalis*: 201607033 y 201611011.
· Evaluador ad hoc de la revista *Journal of Physiology and Pharmacology*: JPP-2841.
· Evaluador ad hoc de la revista *Journal of Neuroscience Research*: JNR-2013-Feb-5193.
· Evaluador ad hoc de la revista *Based Complementary and Alternative Medicine*: 358282.
· Evaluador ad hoc de la revista *Research and Reports in Urology*: 76716; 113610; 141327 y 144532.
· Evaluador ad hoc de la revista *BMC Pharmacology and Toxicology*: 110696417316544.
· Evaluador ad hoc de la revista *Expert Opinion on Therapeutic Targets*: EOTT-2016-0035.
· Evaluador ad hoc de la revista *Scientific Reports*: SREP-16-09951.
· Evaluador ad hoc de la revista *Drug Design Development and Therapy*: 113807.
· Evaluador ad hoc de la revista *Current Drug Targets:* BSP-CDT-2016-650; BSP-CDT-2017-HT6814; BSP-CDT-2017-741 y BSP-CDT-2017-748.
· Evaluador ad hoc del *e-book Betham* Series FII/EOI-19.

· Evaluador ad hoc del Congreso de la ***ICS* 2014** (Rio de Janeiro, Brasil).
· Evaluador ad hoc del Congreso de la ***ICS* 2015** (Montreal, Canadá).
· Evaluador ad hoc del Congreso de la ***ICS* 2017** (Florencia, Italia).
· Evaluador ad hoc del Congreso de la ***ICS* 2018** (Filadelfia, Estados Unidos).
· Evaluador ad hoc del Congreso de la ***ICS* 2019** (Goteborg, Suecia).

· Top Ten Reviewer ***Neurourology and Urodynamics* 2011**.

· Concesión por Concurso de Méritos de la Exención de los Requisitos para participar en las Pruebas de Habilitación para el Cuerpo de Catedráticos de Universidad. UCM. Facultad de Farmacia. Departamento de Fisiología.7/07/2004.

· Acreditación Nacional para el Cuerpo Docente de Catedráticos de Universidad en Ciencias de la Salud. ANECA. Ministerio de Educación, Cultura y Deporte. 26/01/2012.

CURRÍCULUM VÍTAE NORMALIZADO

Vicente Lahera Juliá

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GOBIERNO DE ESPAÑA
MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Resumen libre del currículum

Descripción breve de la trayectoria científica, los principales logros científico-técnicos obtenidos, los intereses y objetivos científico-técnicos a medio/largo plazo de la línea de investigación. Incluye también otros aspectos o peculiaridades importantes.

Formación Universitaria
- Licenciado en Ciencias Químicas-Bioquímica, UAM, 1977
- Grado de Licenciado en Ciencias Químicas-Bioquímica, UAM 1980
- Doctor en Ciencias Químicas-Bioquímica, UAM, 1985

Cargos académicos

- Catedrático de Universidad, Facultad de Medicina UCM, 2007
- Profesor Titular de Universidad, Facultad de Medicina UCM, 1999
- Profesor Titular Escuela Universitaria, Facultad de Medicina UCM, 1991
- Profesor Titular Interino, Facultad de Medicina UCM, 1989
- Profesor Ayudante LRU, Facultad de Medicina UCM, 1987
- Profesor Ayudante, Facultad de Medicina UCM, 1982
- Becario Predoctoral, Facultad de Medicina UCM 1981

Sexenios de investigación: 5
Quinquenios de docencia: 7
Trienios de antigüedad: 11

Estancias en centros de investigación extranjeros. Departamento de Fisiología. Mayo Clinic Rochester, MN, USA: 1988- 1991

Dirección de tesis doctorales (10 años): 12
Proyectos de I+D en Convocatorias públicas: 23 como Investigador Principal; 8 como Investigador Asociado
Proyectos de I+D con Empresas (Art. 83 LOU): 26 como Investigador Principal
Publicaciones científicas indexadas (PubMed): 150
Publicaciones indexadas en otras Bases: 96Capítulos en libros: 61
Comunicaciones a congresos internacionales: 207
Comunicaciones a congresos nacionales: 233
Ponencias y Conferencias en Congresos y Reuniones Científicas: 187
Becas y ayudas: 11
Premios: 8

Áreas de investigación: Arteriosclerosis, Hipertensión arterial, Obesidad, Síndrome metabólico, Diabetes, Hipertrofia cardíaca, Disfunción endotelial, Sistema renina-

angiotensina-aldosterona, Estrés oxidativo, Inflamación, Fibrosis, Mecanismos de acción de fármacos antihipertensivos e hipolipemiantes, Mecanismos de acción de polifenoles.

Evaluador de revistas: British Journal of Pharmacology, Cardiovascular Research, European Journal of Clinical Investigation, Journal of Hypertension, Life Sciences, Hypertension.

Miembro de comités editoriales
Fisiología Humana. Editor. JA F Tresguerres, 1ª, 2ª y 3ª edición, Ed. Interamericana, McGraw.
American Journal of Hypertension. Edición en Español.
Cuadernos Latinoamericanos de Hipertensión.
Journal of Hypertension. Edición en Español
Journal of Hypertension. 2000-2002
Current Hypertension Reviews (2004-…)
Revista Medicina de Colombia (2006…)
Director de la revista “Clínica e Investigación en Arteriosclerosis” (2006-…)

Miembro de sociedades cientificas
- Sociedad Española de Ciencias Fisiológicas
- Sociedad Española de Hipertensión - Liga Española para la Lucha contra la Hipertensión Arterial
- Sociedad Española de Arteriosclerosis
- Sociedad Colombiana de Cardiología
- Sociedad Colombiana de Medicina Interna
- Sociedad Venezolana de Cardiología

Indicadores generales de calidad de la producción científica

Descripción breve de los principales indicadores de calidad de la producción científica (sexenios de investigación, tesis doctorales dirigidas, citas totales, publicaciones en primer cuartil (Q1), índice h....). Incluye también otros aspectos o peculiaridades importantes.

Vicente Lahera Juliá

Apellidos: **Lahera Juliá**
Nombre: **Vicente**
DNI:

Sexo: **Hombre**
Teléfono fijo:

Correo electrónico: **vlahera@med.ucm.es**

Situación profesional actual

Entidad empleadora: Universidad Complutense de Madrid
Departamento: FISIOLOGIA, MEDICINA
Categoría profesional: CATEDRÁTICO DE UNIVERSIDAD
Ciudad entidad empleadora: 28040,
Teléfono: 91 3942287 **Fax:** 91 - 3941628 **Correo electrónico:** vlahera@med.ucm.es

Fecha de inicio: 2007
Modalidad de contrato: Plantilla **Régimen de dedicación:** Tiempo completo

Cargos y actividades desempeñados con anterioridad

	Entidad empleadora	Categoría profesional	Fecha de inicio
1	Universidad Complutense de Madrid	Profesor Titular de Universidad	1999
2	Universidad Complutense de Madrid	Profesor Titular Escuela Universitaria	1991
3	Universidad Complutense de Madrid	Profesor Titular Interino EU	1989
4	Universidad Complutense de Madrid	Profesor Ayudante LRU	1987
5	Universidad Complutense de Madrid	Profesor Ayudante	1982
6	Universidad Complutense de Madrid	Becario Predoctoral	1981

1 **Entidad empleadora:** Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Categoría profesional: Profesor Titular de Universidad
Fecha de inicio-fin: 1999 - 2007

2 **Entidad empleadora:** Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Categoría profesional: Profesor Titular Escuela Universitaria
Fecha de inicio-fin: 1991 - 1999

3 **Entidad empleadora:** Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Categoría profesional: Profesor Titular Interino EU
Fecha de inicio-fin: 1989 - 1991

4 **Entidad empleadora:** Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Categoría profesional: Profesor Ayudante LRU
Fecha de inicio-fin: 1987 - 1989

5 **Entidad empleadora:** Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Categoría profesional: Profesor Ayudante
Fecha de inicio-fin: 1982 - 1987

6 **Entidad empleadora:** Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Categoría profesional: Becario Predoctoral
Fecha de inicio-fin: 1981 - 1982

Formación académica recibida

Titulación universitaria

Estudios de 1º y 2º ciclo, y antiguos ciclos (Licenciados, Diplomados, Ingenieros Superiores, Ingenieros Técnicos, Arquitectos)

1 **Titulación universitaria:** Titulado Superior
Nombre del título: Grado Ldo. C. Químicas-Bioquímica Fac. Ciencias, UAM
Entidad de titulación: Universidad Autonoma de Madrid **Tipo de entidad:** Universidad
Fecha de titulación: 1980

2 **Titulación universitaria:** Titulado Superior
Nombre del título: Ldo. C. Químicas-Bioquímica
Entidad de titulación: Universidad Autónoma de Madrid **Tipo de entidad:** Universidad
Fecha de titulación: 1977

Doctorados

Programa de doctorado: Endocrinología Experimental
Entidad de titulación: FACULTAD DE MEDICINA, UCM **Tipo de entidad:** Universidad
Fecha de titulación: 1985

Conocimiento de idiomas

Idioma	Comprensión auditiva	Comprensión de lectura	Interacción oral	Expresión oral	Expresión escrita
Italiano	C2	C1	C2	C2	B2
Inglés	C2	C2	C2	C2	C2

Actividad docente

Dirección de tesis doctorales y/o proyectos fin de carrera

1 **Título del trabajo:** Efectos de las proantocianidinas sobre las alteraciones cardiacas producidas por la aldosterona en rata: mecanismos implicados
Entidad de realización: Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Alumno/a: Adrian Galiana Rodriguez-Barbero
Fecha de defensa: 03/03/2017

2 **Título del trabajo:** Efectos de un extracto de fibra de pulpa de albarroba rico en polifenoles sobre las alteraciones asociadas a la aterosclerosis experimental. Mecanismos implicados.
Entidad de realización: Complutense. FACULTAD: Medicina.
Alumno/a: María Valero Muñoz.
Calificación obtenida: Sobresaliente Cum Laude
Fecha de defensa: 06/11/2013

3 **Título del trabajo:** Efectos de la aldosterona sobre el desarrollo de la hipertrofia y la insuficiencia cardiaca en ratas: factores y mecanismos implicados.
Entidad de realización: Complutense. FACULTAD: Medicina.
Alumno/a: Beatriz Martín Fernández.
Calificación obtenida: Sobresaliente Cum Laude
Fecha de defensa: 14/04/2011

4 **Título del trabajo:** Alteraciones funcionales vasculares en la aterosclerosis experimental: consecuencias del tratamiento con una estatina y un ARA II. TESINANDO: Natalia de las Heras Jiménez.
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: CC Biológicas AÑO: 2003
Calificación obtenida: SOBRESALIENTE “CUM LAUDE”

5 **Título del trabajo:** Alteraciones presoras, metabólicas y vasculares producidas por una dieta rica en fructosa en la rata. Consecuencias del tratamiento antihipertensivo.
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: CC Biológicas AÑO: 1998
Alumno/a: Elena Rodrigo Serrano
Calificación obtenida: APTO "CUM LAUDE"

6 **Título del trabajo:** Consecuencias vasculares y renales de la hipertensión inducida por la síntesis de oxido nítrico en ratas.
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: CC Químicas AÑO: 1997
Alumno/a: Josefa Navarro Cid
Calificación obtenida: APTO "CUM LAUDE"

7 **Título del trabajo:** Disfunción endotelial e inflamación en la hipertensión experimental: Papel de la angiotensina II.
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: CC Químicas AÑO: 2005
Alumno/a: David Sanz Rosa.
Calificación obtenida: SOBRESALIENTE “CUM LAUDE”

8 **Título del trabajo:** Efectos del envejecimiento sobre la función vascular en la rata espontáneamente hipertensa: Consecuencias del bloqueo del sistema renina-angiotensina.
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: CC Biológicas AÑO: 1998
Alumno/a: Rosaura Maeso Martín
Calificación obtenida: APTO "CUM LAUDE"

9 **Título del trabajo:** Efectos vasculares y renales del bloqueo de los receptores AT1 de angiotensina II en la rata espontaneamente hipertensa: Participación de los receptores AT2, el óxido nítrico, las prostaglandinas y las cininas.
Entidad de realización: Universidad Complutense de Madrid 1986
Alumno/a: Raquel Muñoz García
Calificación obtenida: APTO "CUM LAUDE"

10 **Título del trabajo:** Estudio comparativo de los efectos de la hipercolesterolemia y la dislipemia mixta sobre la función y la estructura vascular: consecuencias del tratamiento hipolipemieante. TESINANDO: Eva Cediel Gil
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: CC Biológicas AÑO: 2003
Calificación obtenida: SOBRESALIENTE “CUM LAUDE”

11 **Título del trabajo:** Mecanismos y factores implicados en las alteraciones cardiacas producidas por la aldosterona y el isoproterenol en ratas
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: Bilogía AÑO: 2011
Alumno/a: Beatriz Martín Fernández
Calificación obtenida: SOBRESALIENTE “CUM LAUDE”

12 **Título del trabajo:** Papel de los Sistemas Hormonales Renales en el Mecanismo de Vasodilatación Inducida por Molsidomina
Entidad de realización: Complutense FACULTAD/ESCUELA: Medicina AÑO: 1988
Alumno/a: Juan José Cantón
Calificación obtenida: APTO "CUM LAUDE" Premio Extraordinario de la UCM.

13 **Título del trabajo:** Participación de la aldosterona en la disfunción endotelial y en el proceso inflamatorio vascular asociado a la hipertensión en ratas.
Entidad de realización: Complutense de Madrid FACULTAD/ESCUELA: Bilogía AÑO: 2009
Alumno/a: María Miana Ortega
Calificación obtenida: SOBRESALIENTE “CUM LAUDE”

Experiencia científica y tecnológica

Actividad científica o tecnológica

Proyectos de I+D+i financiados en convocatorias competitivas de Administraciones o entidades públicas y privadas

1 **Nombre del proyecto:** Diseño, mediante inteligencia artificial, de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas: Aportación del análisis genético
Entidad de realización: Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Ciudad entidad realización: Madrid,
Nombres investigadores principales (IP, Co-IP,...): Antonio Lopez Farre
Nº de investigadores/as: 64
Fecha de inicio-fin: 01/01/2018 - 31/12/2021
Cuantía total: 800.000 €

2 **Nombre del proyecto:** Bioactive compounds from Olea europaea: investigation and application in food, cosmetic and pharmaceutical industry
Entidad de realización: Universidad Complutense de Madrid **Tipo de entidad:** Universidad
Ciudad entidad realización: H2020-MSCA-RISE-2016 Proposal Number: 734899,
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá; Antonio Lopez Farre; Natalia de las Heras Jimenez; Jose Javier Zamorano Leon; Baltasar Ruiz Roso Calvo e Mora; Lourdes Perez Olleros
Nº de investigadores/as: 6
Fecha de inicio-fin: 01/03/2017 - 28/02/2021

3 **Nombre del proyecto:** Posible implicación de la dinámica mitocondrial en el síndrome de resistencia plaquetaria a Aspirina en el paciente diabético. Relación con el interactoma de PGC-1alfa en la plaqueta
Entidad de realización: UNIVERSIDAD COMPLUTENSE DE MADRID **Tipo de entidad:** Universidad
Ciudad entidad realización: Madrid,
Nombres investigadores principales (IP, Co-IP,...): Antonio Lopez Farre
Nº de investigadores/as: 6
Fecha de inicio-fin: 01/01/2018 - 31/12/2020
Cuantía total: 118.000 €

4 **Nombre del proyecto:** Nuevas tecnologías en el desarrollo de alimentos y medicamentos basados en derivados del olivo, para el tratamiento de enfermedades crónicas inflamatorias (OLEOMEGA).
Entidad de realización: UCM **Tipo de entidad:** Universidad
Ciudad entidad realización: Madrid,
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Julia; Natalia de las Heras
Nº de investigadores/as: 3
Fecha de inicio-fin: 01/10/2014 - 31/12/2016
Cuantía total: 82,58 €

5 **Nombre del proyecto:** Tecnologias innovadoras para el desarrollo de nuevos productos saludables a base de polifenoles (innofenol)
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
Subprograma INNPACTO IPT-2012-0213-060000 (Ministerio de Ciencia e Innovación).
Fecha de inicio: 01/01/2013 **Duración:** 2 años - 11 meses - 30 días
Cuantía total: 141.970 €

6 **Nombre del proyecto:** Efectos y mecanismos de las proantocianidinas sobre las alteraciones cardiovasculares asociadas a la hipertensión arterial.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
Ministerio de Ciencia e Innovacion SAF2011-30396
Fecha de inicio: 2011 **Duración:** 3 años

7 **Nombre del proyecto:** Nuevas tecnologías y procesos para el desarrollo de productos innovadores del olivar destinados a nuevos mercados internacionales de alto valor añadido.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
Ministerio de Ciencia e Innovacion IPT-2011-1262-060000

Fecha de inicio: 2011 **Duración:** 4 años

8 **Nombre del proyecto:** Factores de riesgo, evolución y tratamiento de las enfermedades cardiovasculares y sus mecanismos moleculares y celulares
Nombres investigadores principales (IP, Co-IP,...): Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
Red Temática de enfermedades cardiovasculares FIS RD06/0014/0007

Fecha de inicio: 2007 **Duración:** 3 años

9 **Nombre del proyecto:** Mecanismos y factores implicados en el desarrollo de la enfermedad cardiovascular asociada a sobrepeso y exceso de tejido adiposo visceral en la rata. Papel de la angiotensina II.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
Plan Nacional I+D+i (SAF 2007- 61595)

Fecha de inicio: 2007 **Duración:** 3 años

10 **Nombre del proyecto:** Participación del sistema renina-angiotensina-aldosterona en el daño vascular asociado al síndrome metabólico. Interacción con las estatinas
Nombres investigadores principales (IP, Co-IP,...): Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
FIS (FIS-60133)

Fecha de inicio: 2006 **Duración:** 3 años

11 **Nombre del proyecto:** Efectos cardiovasculares del Mercurio.
Nombres investigadores principales (IP, Co-IP,...): Dalton; V. Vassallo; Mercedes Salaices; Vicente Lahera
Entidad/es financiadora/s:
CAPES (BRASIL)- MEC (ESPAÑA) (HBP2005-0002).

Fecha de inicio: 2005 **Duración:** 2 años

12 **Nombre del proyecto:** Beneficios cardiovasculares de la actividad física en la hipertensión y el envejecimiento.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
AECI (A/1707/04). Ayudas para proyectos bilaterales con Iberoamérica. Programa Intercampus con Universidad de Sao Paulo

Brasil

Fecha de inicio: 2004 **Duración:** 1 año

13 **Nombre del proyecto:** Participación de la aldosterona en el daño vascular, renal y cardíaco asociado a la hipertensión: mecanismos implicados.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
CICYT. (SAF 2004-1884).

Fecha de inicio: 2004 **Duración:** 3 años

14 **Nombre del proyecto:** Enfermedad coronaria e inflamación
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
AECI (B/0828/03). Ayudas para proyectos bilaterales con Iberoamérica. Programa Intercampus con Universidad de Sao Paulo

Brasil

Fecha de inicio: 2003 **Duración:** 1 año

15 **Nombre del proyecto:** Inmigración y enfermedad Cardiovascular
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
AECI (B/0832/03). Ayudas para proyectos bilaterales con Iberoamérica. Programa Intercampus con Universidad Industrial de Santander-Fundación Cardiovascular.

Bucaramanga

Colombia

Fecha de inicio: 2003 **Duración:** 1 año

16 **Nombre del proyecto:** Participación de la Aldosterona en la inflamación vascular asociada a la hipertensión arterial.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
Plan Regional de Investigación CAM (08.4/0002.1/2003).

Fecha de inicio: 2003 **Duración:** 1 año

17 **Nombre del proyecto:** Inflamación e hipertensión: Papel de la angiotensina II y de la cicloxigenasa 2.
Nombres investigadores principales (IP, Co-IP,...): Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
FIS. (FIS 01/0088-02).

Fecha de inicio: 2002 **Duración:** 2 años

18 **Nombre del proyecto:** Mecanismos oxidantes e inflamatorios en la aterosclerosis: Participación de las ciclooxigenasas 1 y 2, óxido nítrico sintasas, angiotensina II y aldosterona.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
CICYT. (SAF 2001-1864).

Fecha de inicio: 2001 **Duración:** 2 años

19 **Nombre del proyecto:** Mecanismos endoteliales responsables de las alteraciones vasculares funcionales y estructurales producidas por la dislipidemia.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
CICYT. (SAF 98-007).

Fecha de inicio: 1998 **Duración:** 2 años

20 **Nombre del proyecto:** Papel del estrés oxidativo y de los factores vasoactivos constrictores en el daño vascular y renal en la rata diabética espontáneamente hipertensa .
Nombres investigadores principales (IP, Co-IP,...): Victoria Cachofeiro Ramos

Entidad/es financiadora/s:
FIS. (FIS 98/0003-02).

Fecha de inicio: 1998 **Duración:** 2 años

21 **Nombre del proyecto:** Papel de la angiotensina II sobre el estrés oxidativo y las alteraciones funcionales vasculares en la hipertensión.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Fecha de inicio: 1997 **Duración:** 2 años

22 **Nombre del proyecto:** Mecanismos vasculares y renales implicados en los efectos derivados del bloqueo del receptor AT1 de angiotensina II en la hipertensión.
Nombres investigadores principales (IP, Co-IP,...): Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
CICYT. (SAF 95-1549-C02-01).

Fecha de inicio: 1995 **Duración:** 2 años

23 **Nombre del proyecto:** Papel del óxido nítrico en la hipertensión arterial experimental.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Fecha de inicio: 1995

24 **Nombre del proyecto:** Mecanismos implicados en la hipertension asociada a intolerancia a hidratos de carbono.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Fecha de inicio: 1994

25 **Nombre del proyecto:** Papel del oxido nítrico en la hipertensión arterial experimental.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
FIS. (94/0036-02).

Fecha de inicio: 1994 **Duración:** 3 años

26 **Nombre del proyecto:** Mecanismos implicados en la hipertension asociada a intolerancia a hidratos de carbono
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Fecha de inicio: 1991 **Duración:** 2 años

27 **Nombre del proyecto:** Papel de los factores endoteliales relajantes en la regulación de la función renal y de la presión arterial.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
FIS. (91/0116)

Fecha de inicio: 1991 **Duración:** 2 años

28 **Nombre del proyecto:** Efecto de la infusión intrarenal de diferentes dosis Ca2+ sobre la hemodinámica renal, la función excretora y la secreción de renina y prostaglandinas.
Nombres investigadores principales (IP, Co-IP,...): Francisco Javier Rodriguez Rodriguez
Entidad/es financiadora/s:
FIS. (90/0079).

Fecha de inicio: 1990

29 **Nombre del proyecto:** Papel fisiológico de las prostaglandinas en la hipertensión.
Nombres investigadores principales (IP, Co-IP,...): Francisco Javier Rodríguez Rodríguez
Entidad/es financiadora/s:
84/1245

85/891

86/852

87/1714

88/946

89/0215)

FIS. (83/0744

Fecha de inicio: 1984 **Duración:** 5 años

Contratos, convenios o proyectos de I+D+i no competitivos con Administraciones o entidades públicas o privadas

1 **Nombre del proyecto:** Estudio de actividad de extractos vegetales en un modelo animal de intestino irritable.
Nº de investigadores/as: 2
Entidad/es financiadora/s:
NATAC BIOTECH

S.L.

Fecha de inicio: 16/03/2011 **Duración:** 11 meses - 30 días
Cuantía total: 10.000 €

2 **Nombre del proyecto:** Efecto de polifenoles y triterpenos de origen vegetal sobre las alteraciones cardiovasculares y metabólicas asociadas a factores de riesgo.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá y Natalia de las Heras
Entidad/es financiadora/s:
Biotech SL Arttículo 83 LOU

NATAC

Fecha de inicio: 2011 **Duración:** 1 año
Cuantía total: 15.681 €

3 **Nombre del proyecto:** Investigación dirigida al desarrollo de una nueva generación de alimentos para el control de peso y prevención de la obesidad
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá
Entidad/es financiadora/s:
Artículo 83 LOU

Exxentia Grupo Fitoterapeutico SA. Proyecto CENIT Ministerio de Industria

Fecha de inicio: 2008 **Duración:** 4 años
Cuantía total: 240.000 €

4 **Nombre del proyecto:** Mecanismos de desarrollo de Insuficiencia Cardíaca en le postinfarto de miocardio experimental: Relevancia del tratamiento con Candesartan.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá y Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
Artículo 83 LOU

Astra Zeneca España SA

Fecha de inicio: 2007 **Duración:** 2 años

5 **Nombre del proyecto:** Cardiac Proteomics and metabolic syndrome. Effect of Irbesartan.
Nombres investigadores principales (IP, Co-IP,...): Antonio López Farré
Entidad/es financiadora/s:
Bristol Myers-Squibb. Artículo 83 LOU

Fecha de inicio: 2005 **Duración:** 2 años

6 **Nombre del proyecto:** Effect of Aliskiren on endothelial factors.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá y Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
Novartis

S.A. Artículo 83 LOU

Fecha de inicio: 2005 **Duración:** 1 año

7 **Nombre del proyecto:** Inflammation and Fibrosis in Kidney Damage.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá y Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
Pfizer, S.A. **Tipo de entidad:** Entidad Empresarial

S.A.

Fecha de inicio: 2005 **Duración:** 1 año

8 **Nombre del proyecto:** Vasoactive, inflammatory and metabolic effects of Rosuvastatin in an experimental model of metabolic syndrome.
Nombres investigadores principales (IP, Co-IP,...): Vicente Lahera Juliá y Victoria Cachofeiro Ramos
Entidad/es financiadora/s:
Quintiles Ibérica

S.A.U. Artículo 83 LOU

Fecha de inicio: 2005 **Duración:** 1 año

9 **Nombre del proyecto:** Determination of effects of ML-3000 on renal fucntion in an in vivo model of renal impairment.
Entidad/es financiadora/s:
Lacer SA. Artículo 8 LOU

Fecha de inicio: 2002 **Duración:** 2 años

10 **Nombre del proyecto:** Effect of Atorvastatine, Amlopdipine and the combination of both on vascular function and structure in hypercholesterolemic rabbits.
Entidad/es financiadora/s:
Pfizer, S.A. **Tipo de entidad:** Entidad Empresarial

SA . Artículo 8 LOU.

Fecha de inicio: 2002 **Duración:** 2 años

11 **Nombre del proyecto:** Actividad vasorelajadora de los compuestos de Lacer LA-419, LA-447 y LA-448.
Entidad/es financiadora/s:
Lacer SA. Artículo 8 LOU

Fecha de inicio: 2001 **Duración:** 1 año

12 **Nombre del proyecto:** Effect of eplerenone on endotelial dysfucntion and vascular remodelling in hypertensive rats.
Entidad/es financiadora/s:
Pharmacia Corporation. Artículo 8 LOU

Fecha de inicio: 2001 **Duración:** 1 año

13 **Nombre del proyecto:** Disfunción endotelial en conejos hipercolesterolémicos. Consecuencias del tratmiento con quinapril y atorvastatina.
Entidad/es financiadora/s:
Pfizer SA .Artículo 8 LOU.

Fecha de inicio: 2000 **Duración:** 1 año

14 **Nombre del proyecto:** Estudio de parámetros de inflamación vascular en la rata espontáneamente hipertensa: Consecuencias del tratamiento con ARA II .
Entidad/es financiadora/s:
AstraZeneca Farmacéutica Spain SA. Artículo 8 LOU

Fecha de inicio: 2000 **Duración:** 1 año

15 **Nombre del proyecto:** Papel de la Angiotensina II en las alteraciones de la función endotelial producida por la hipercolesterolemia.
Entidad/es financiadora/s:
Fundación Mapfre Medicina.

Fecha de inicio: 1999 **Duración:** 1 año

16 **Nombre del proyecto:** Efectos de valsartan sobre la disfunción endotelial inducida por la hipercolesterolemia en conejos.
Entidad/es financiadora/s:
Novartis Pharma AG. Artículo 11 LRU.

Fecha de inicio: 1998 **Duración:** 1 año

17 **Nombre del proyecto:** Papel del estres oxidativo en la disfunción endotelial presente en un modelo experimental de dislipemia: Efecto de los inhibidores de la HMG-CoA reductasa
Entidad/es financiadora/s:
Fundación Mapfre Medicina.

Fecha de inicio: 1998 **Duración:** 1 año

18 **Nombre del proyecto:** Efectos del omapatrilato sobre la disfunción endotelial enla rata espontanemamente hipertensa.
Entidad/es financiadora/s:
Bristol Myers Squibb. Artículo 11 LRU.

Fecha de inicio: 1997 **Duración:** 3 años

19 **Nombre del proyecto:** Efectos del omapatrilato sobre la disfunción endotelial enla rata espontanemamente hipertensa.
Entidad/es financiadora/s:
Bristol Myers Squibb. Artículo 11 LRU.

Fecha de inicio: 1997 **Duración:** 3 años

20 **Nombre del proyecto:** Disfunción endotelial en conejos hipercolesterolémicos. Consecuencias del tratmiento con atorvastatina.
Entidad/es financiadora/s:
Parke Davis SA .Artículo 11 LRU.

Fecha de inicio: 1995 **Duración:** 4 años

21 **Nombre del proyecto:** Mechanisms underlying the acute renal efefcts of
Entidad/es financiadora/s:
Merck

Sharp & Dohme .Artículo 11 LRU.

Fecha de inicio: 1995

22 **Nombre del proyecto:** Mechanisms involved in the effects of Losartan on blood pressure and renal function.
Entidad/es financiadora/s:
Merck

Sharp & Dohme .Artículo 11 LRU.

Fecha de inicio: 1994

23 **Nombre del proyecto:** Effects of Losartan in hypertension associated to insulin resistance.
Entidad/es financiadora/s:
Merck

Sharp & Dohme .Artículo 11 LRU.

Fecha de inicio: 1993

24 **Nombre del proyecto:** Role of NO in the acute hypotensive effects of Losartan in SHR.
Entidad/es financiadora/s:
Merck

Sharp & Dohme .Artículo 11 LRU.

Fecha de inicio: 1992

Resultados

Propiedad industrial e intelectual

Título propiedad industrial registrada: Use of a-type proanthocyanidins in treating a mineralocorticoid receptor related disease
Inventores/autores/obtentores: Martín-Fernández, Beatriz; de las Heras Jiménez, Natalia; Pinilla Rosas, José María; de la Fuente García, Esther; Quintela Fernández, José Carlos; Lahera Juliá, Vicente.
Nº de solicitud: 13178151.0-1464
Fecha de registro: 26/07/2013

Actividades científicas y tecnológicas

Producción científica

Publicaciones, documentos científicos y técnicos

1 V Lahera; B Martin-Fernandez; L Perez-Olleros; B Ruiz-Rosso; S Ballesteros; M Valero-Muñoz. Supplementation with an insoluble fiber obtained from carob pod (Ceratonia siliqua L.) rich in polyphenols prevents dyslipidemia in rabbits through SIRT1/PGC-1α pathway.Eur J Nutr. doi: 10.1007/s00394-, 22/12/2017.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: No

2 JJ Zamorano-Leon; V Lahera; A Gonzalez-Cantalapiedra; S Ballesteros; N de las Heras; A Lopez-Farre; Z lopez-Ibarra; Sopeña B 1. Really does temperature reduction and norepinephrine have similar effects on the energy metabolism in rat brown adipose tissue?.Arch Physiol Biochem. 2017 Aug 26:1-7. 26, pp. 1 - 7. 24/08/2017.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: No

3 B Ruiz-Roso; S Ballesteros; B Martin-fernandez; M Valero-Muñoz; N de las Heras. Molecular factors involved in the hypolipidemic- and insulin-sensitizing effects of a ginger (Zingiber officinale Roscoe) extract in rats fed a high-fat diet. Appl Physiol Nutr Metab.42 - 2, pp. 209 - 215. 16/02/2017.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: Si

4 Vicente Lahera; Natalia de las Heras; Antonio lopez-Farre; Walter Manucha; Leon Ferder. Role of Mitochondrial Dysfunction in Hypertension and Obesity. Curr Hypertens Rep. 2017 Feb;19(2):11. doi: 10.1007/s11906-017-0710-9. 09/02/2017.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: Si

5 V Lahera; B Ruiz-Roso; A Lopez-Farre; S Ballesteros; B Martin Fernandez; M Valero Muñoz; N de las Heras. Molecular factors involved in the hypolipidemic- and insulin-sensitizing effects of a ginger (Zingiber officinale Roscoe) extract in rats fed a high-fat diet. Appl Physiol Nutr Metab. 42 - 2, pp. 209 - 215. 04/02/2017.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista

6 B Martin-Fernandez; V Lahera; PJ Fuller; N de las Heras; S Ballesteros; MB Ruiz-Rosso; M Klett-Mingo; E Olivares-Alvaro; A Galiana-Simal. Proanthocyanidins block aldosterone-dependent up-regulation of cardiac gamma ENaC and Nedd4-2 inactivation via SGK1. J Nutr Biochem. 37, pp. 13 - 19. 17/11/2016.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: No

7 Vicente Lahera. Hyperuricemia as a prognostic marker of cardiovascular disease in hypertensive and diabetic patients. Clin Investig Arterioscler. 2016 Sep - Oct;28(5):225-226. doi: 10.1016/j.arteri.2016.09.001.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: No

8 Natalia de las Heras; Vicente Lahera. Molecular factors involved in the hypolipidemic- and insulin-sensitizing effects of a ginger (Zingiber officinale Roscoe) extract in rats fed a high-fat diet.Appl Physiol Nutr Metab. 2017 Feb;42(2):209-215. doi: 10.1139/apnm-2016-0374. Epub 2016 Nov 2.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: Si

9 Adrian Galiana-Simal; Vicente Lahera. Proanthocyanidins block aldosterone-dependent up-regulation of cardiac gamma ENaC and Nedd4-2 inactivation via SGK1. J Nutr Biochem. 2016 Nov;37:13-19. doi: 10.1016/j.jnutbio.2016.07.012. Epub 2016 Aug 14.
Tipo de producción: Artículo científico **Tipo de soporte:** Revista
Autor de correspondencia: Si

10 Pedro Perez Segura; José J Zamorano León; Daniel Acosta; Juana María Santos Sancho; Javier Modrego; Trinidad Caldés; Miguel de la Hoya; Eduardo Díaz Rubio; Isabel Díaz Millán; Natalia de Las Heras; Luis Alfonso Rico Zalba; Vicente Lahera; Olle Melander; Antonio López Farré. BRCA2 gene mutations and coagulation-associated biomarkers.Thrombosis and haemostasis. 115 - 2, pp. 415 - 438. (Alemania): 27/01/2016. ISSN 0340-6245

11 Beatriz Martín Fernández; Alfonso Rubio Navarro; Isabel Cortegano; Sandra Ballesteros; Mario Alía; Pablo Cannata Ortiz; Elena Olivares Álvaro; Jesús Egido; Belén de Andrés; María Luisa Gaspar; Natalia de Las Heras; Vicente Lahera; Juan Antonio Moreno. Aldosterone Induces Renal Fibrosis and Inflammatory M1-Macrophage Subtype via Mineralocorticoid Receptor in Rats.PloS one. 11 - 1, pp. e0145946. 2016. ISSN 1932-6203

12 A Torres; V Cachofeiro; J Millán; V Lahera; M L Nieto; R Martín; E Bello; L A Alvarez Sala. Red wine intake but not other alcoholic beverages increases total antioxidant capacity and improves pro-inflammatory profile after an oral fat diet in healthy volunteers.Revista clinica española. 215 - 9, pp. 486 - 580. (España): 12/2015. ISSN 1578-1860

13 Olle Melander; Javier Modrego; Jose J Zamorano León; Juana M Santos Sancho; Vicente Lahera; Antonio J López Farré. New circulating biomarkers for predicting cardiovascular death in healthy population.Journal of cellular and molecular medicine. 19 - 10, pp. 2489 - 2588. 10/2015. ISSN 1582-4934

14 Z López Ibarra; J Modrego; M Valero Muñoz; P Rodríguez Sierra; J J Zamorano León; A González Cantalapiedra; N de Las Heras; S Ballesteros; V Lahera; A J López Farré. Metabolic differences between white and brown fat from fasting rabbits at physiological temperature.Journal of molecular endocrinology. 54 - 2, pp. 105 - 118. 04/2015. ISSN 1479-6813

15 María Valero Muñoz; Beatriz Martín Fernández; Sandra Ballesteros; Vicente Lahera; Natalia de las Heras. Carob pod insoluble fiber exerts anti-atherosclerotic effects in rabbits through sirtuin-1 and peroxisome proliferator-activated receptor-γ coactivator-1α.The Journal of nutrition. 144 - 9, pp. 1378 - 1462. 09/2014. ISSN 1541-6100

16 Antonio J López Farré; Javier Modrego; Luis Azcona; Reddy Guerra; Antonio Segura; Pablo Rodríguez; José J Zamorano León; Vicente Lahera; Carlos Macaya. Nitric oxide from mononuclear cells may be involved in platelet responsiveness to aspirin.European journal of clinical investigation. 44 - 5, pp. 463 - 472. 05/2014. ISSN 1365-2362

17 Beatriz Martín Fernández; María Valero Muñoz; Natalia de las Heras; Sandra Ballesteros; Vicente Lahera. Relevance of SGK1 in structural, functional and molecular alterations produced by aldosterone in heart.Hormone molecular biology and clinical investigation. 18 - 2, pp. 53 - 114. (Alemania): 05/2014. ISSN 1868-1891

18 Victoria Cachofeiro; Vicente Lahera. The endocrine and cardiovascular systems: a close liaison.Hormone molecular biology and clinical investigation. 18 - 1, pp. 1 - 3. (Alemania): 04/2014. ISSN 1868-1891

19 María Valero Muñoz; Beatriz Martín Fernández; Sandra Ballesteros; Esther de la Fuente; José Carlos Quintela; Vicente Lahera; Natalia de las Heras. Protective effect of a pomace olive oil concentrated in triterpenic acids in alterations related to hypertension in rats: mechanisms involved.Molecular nutrition & food research. 58 - 2, pp. 376 - 459. (Alemania): 02/2014. ISSN 1613-4133

20 Almudena Gómez Hernández; Liliana Perdomo; Natalia de las Heras; Nuria Beneit; Oscar Escribano; Yolanda F Otero; Carlos Guillén; Sabela Díaz Castroverde; Beatriz Gozalbo López; Victoria Cachofeiro; Vicente Lahera; Manuel Benito. Antagonistic effect of TNF-alpha and insulin on uncoupling protein 2 (UCP-2) expression and vascular damage.Cardiovascular diabetology. 13, pp. 108. 2014. ISSN 1475-2840

21 Beatriz Martín Fernández; Natalia de las Heras; María Valero Muñoz; Sandra Ballesteros; Yi-Zhou Yao; Peter G Stanton; Peter J Fuller; Vicente Lahera. Beneficial effects of proanthocyanidins in the cardiac alterations induced by aldosterone in rat heart through mineralocorticoid receptor blockade.PloS one. 9 - 10, pp. e111104. 2014. ISSN 1932-6203

22 Maria-Angeles Aller; Natalia de las Heras; Maria-Paz Nava; Javier Regadera; Jaime Arias; Vicente Lahera. Splanchnic-aortic inflammatory axis in experimental portal hypertension.World journal of gastroenterology. 19 - 44, pp. 7992 - 8001. (China): 28/11/2013. ISSN 2219-2840

23 Gema Fernández Juárez; José Luño; Vicente Barrio; Soledad García de Vinuesa; Manuel Praga; Marian Goicoechea; Vicente Lahera; Luisa Casas; Jesús Oliva. 25 (OH) vitamin D levels and renal disease progression in patients with type 2 diabetic nephropathy and blockade of the renin-angiotensin system.Clinical journal of the American Society of Nephrology : CJASN. 8 - 11, pp. 1870 - 1876. 11/2013. ISSN 1555-905X

24 N de las Heras; M Valero Muñoz; S Ballesteros; A Gómez Hernández; B Martín Fernández; J Blanco Rivero; V Cachofeiro; M Benito; G Balfagón; V Lahera. Factors involved in rosuvastatin induction of insulin sensitization in rats fed a high fat diet.Nutrition, metabolism, and cardiovascular diseases : NMCD. 23 - 11, pp. 1107 - 1121. 11/2013. ISSN 1590-3729

25 M Valero Muñoz; B Martín Fernández; S Ballesteros; E Martínez Martínez; J Blanco Rivero; G Balfagón; V Cachofeiro; V Lahera; N de las Heras. Relevance of vascular peroxisome proliferator-activated receptor γ coactivator-1α to molecular alterations in atherosclerosis.Experimental physiology. 98 - 5, pp. 999 - 2007. 05/2013. ISSN 1469-445X

26 Javier Modrego; Natalia de las Heras; Jose J Zamorano León; Petra J Mateos Cáceres; Beatriz Martín Fernández; Maria Valero Muñoz; Vicente Lahera; Antonio J López Farré. Changes in cardiac energy metabolic pathways in overweighed rats fed a high-fat diet.European journal of nutrition. 52 - 2, pp. 847 - 903. (Alemania): 03/2013. ISSN 1436-6215

27 Gema Fernandez Juarez; José Luño; Vicente Barrio; Soledad García de Vinuesa; Manuel Praga; Marian Goicoechea; Victoria Cachofeiro; Javier Nieto; Francisco Fernández Vega; Ana Tato; Eduardo Gutierrez. Effect of dual blockade of the renin-angiotensin system on the progression of type 2 diabetic nephropathy: a randomized

trial.American journal of kidney diseases : the official journal of the National Kidney Foundation. 61 - 2, pp. 211 - 219. 02/2013. ISSN 1523-6838

28 Natalia De las Heras; Maria-Angeles Aller; Jaime Arias; Vicente Lahera. The risk association between experimental portal hypertension and an aortic atherosclerosis-like disease.Hepatology (Baltimore, Md.). 57 - 1, pp. 421 - 423. 01/2013. ISSN 1527-3350

29 Diego Gómez Arbeláez; Vicente Lahera; Pilar Oubiña; Maria Valero Muñoz; Natalia de Las Heras; Yudy Rodríguez; Ronald Gerardo García; Paul Anthony Camacho; Patricio López Jaramillo. Aged garlic extract improves adiponectin levels in subjects with metabolic syndrome: a double-blind, placebo-controlled, randomized, crossover study.Mediators of inflammation. 2013, pp. 285795. 2013. ISSN 1466-1861

30 Ivanita Stefanon; María Valero Muñoz; Aurélia Araújo Fernandes; Rogério Faustino Ribeiro; Cristina Rodríguez; Maria Miana; José Martínez González; Jessica S Spalenza; Vicente Lahera; Paula F Vassallo; Victoria Cachofeiro. Left and right ventricle late remodeling following myocardial infarction in rats.PloS one. 8 - 5, pp. e64986. 2013. ISSN 1932-6203

31 Esther Sastre; Javier Blanco Rivero; Laura Caracuel; Vicente Lahera; Gloria Balfagón. Effects of lipopolysaccharide on the neuronal control of mesenteric vascular tone in rats: mechanisms involved.Shock (Augusta, Ga.). 38 - 3, pp. 328 - 362. 08/2012. ISSN 1540-0514

32 Natalia de Las Heras; María-Angeles Aller; Beatriz Martín Fernández; María Miana; Sandra Ballesteros; Javier Regadera; Victoria Cachofeiro; Jaime Arias; Vicente Lahera. A wound-like inflammatory aortic response in chronic portal hypertensive rats.Molecular immunology. 51 - 2, pp. 177 - 264. 06/2012. ISSN 1872-9142

33 Beatriz Martín Fernández; Natalia de las Heras; María Miana; Sandra Ballesteros; María Valero Muñoz; Dalton Vassallo; Ana Paula Davel; Luciana Venturini Rossoni; Victoria Cachofeiro; Vicente Lahera. Spironolactone prevents alterations associated with cardiac hypertrophy produced by isoproterenol in rats: involvement of serum- and glucocorticoid-regulated kinase type 1.Experimental physiology. 97 - 6, pp. 710 - 718. 06/2012. ISSN 1469-445X

34 Almudena Gómez Hernández; Yolanda F Otero; Natalia de las Heras; Oscar Escribano; Victoria Cachofeiro; Vicente Lahera; Manuel Benito. Brown fat lipoatrophy and increased visceral adiposity through a concerted adipocytokines overexpression induces vascular insulin resistance and dysfunction.Endocrinology. 153 - 3, pp. 1242 - 1297. 03/2012. ISSN 1945-7170

35 Maria-Angeles Aller; Natalia Heras; Javier Blanco Rivero; Jose-Ignacio Arias; Vicente Lahera; Gloria Balfagón; Jaime Arias. Portal hypertensive cardiovascular pathology: the rescue of ancestral survival mechanisms?. Clinics and research in hepatology and gastroenterology. 36 - 1, pp. 35 - 81. (Francia): 02/2012. ISSN 2210-741X

36 Ruben Martín; Maria Miana; Raquel Jurado López; Ernesto Martínez Martínez; Nieves Gómez Hurtado; Carmen Delgado; Maria Visitación Bartolomé; José Alberto San Román; Claudia Cordova; Vicente Lahera; Maria Luisa Nieto; Victoria Cachofeiro. DIOL triterpenes block profibrotic effects of angiotensin II and protect from cardiac hypertrophy.PloS one. 7 - 7, pp. e41545. 2012. ISSN 1932-6203

37 Granada Alvarez; M Visitación Bartolomé; María Miana; Raquel Jurado López; Ruben Martín; Pilar Zuluaga; Ernesto Martinez Martinez; M Luisa Nieto; Luis A Alvarez Sala; Jesús Millán; Vicente Lahera; Victoria Cachofeiro. The effects of adiponectin and leptin on human endothelial cell proliferation: a live-cell study.Journal of vascular research. 49 - 2, pp. 111 - 133. (Suiza): 2012. ISSN 1423-0135

38 Natalia López Andrés; Beatriz Martin Fernandez; Patrick Rossignol; Faiez Zannad; Vicente Lahera; Maria Antonia Fortuno; Victoria Cachofeiro; Javier Díez. A role for cardiotrophin-1 in myocardial remodeling induced by aldosterone.American journal of physiology. Heart and circulatory physiology. 301 - 6, pp. H2372. 12/2011. ISSN 1522-1539

39 Luciana V Rossoni; Raphael A F Oliveira; Rene R Caffaro; Maria Miana; David Sanz Rosa; Márcia K Koike; Sandra L Do Amaral; Lisete C Michelini; Vicente Lahera; Victoria Cachofeiro. Cardiac benefits of exercise training in aging spontaneously hypertensive rats.Journal of hypertension. 29 - 12, pp. 2349 - 2407. 12/2011. ISSN 1473-5598

40 Vicente Lahera; Victoria Cachofeiro; Natalia de Las Heras. Interplay of hypertension, inflammation, and angiotensin II.American journal of hypertension. 24 - 10, pp. 1059. 10/2011. ISSN 1941-7225

41 Lorena Barros Furieri; Mirian Fioresi; Rogério Faustino Ribeiro Junior; María Visitación Bartolomé; Aurélia Araújo Fernandes; Victoria Cachofeiro; Vicente Lahera; Mercedes Salaices; Ivanita Stefanon; Dalton Valentim Vassallo. Exposure to low mercury concentration in vivo impairs myocardial contractile function.Toxicology and applied pharmacology. 255 - 2, pp. 193 - 202. 01/09/2011. ISSN 1096-0333

42 Patricio Lopez Jaramillo; Vicente Lahera; Jose Lopez Lopez. Epidemic of cardiometabolic diseases: a Latin American point of view.Therapeutic advances in cardiovascular disease. 5 - 2, pp. 119 - 150. 04/2011. ISSN 1753-9455

43 M Miana; N de Las Heras; C Rodriguez; D Sanz Rosa; B Martin Fernandez; S Mezzano; V Lahera; J Martinez Gonzalez; V Cachofeiro. Effect of eplerenone on hypertension-associated renal damage in rats: potential role of peroxisome proliferator activated receptor gamma (PPAR-γ).Journal of physiology and pharmacology : an official journal of the Polish Physiological Society. 62 - 1, pp. 87 - 181. (Polonia): 02/2011. ISSN 1899-1505

44 Javier Blanco Rivero; Natalia de las Heras; Beatriz Martín Fernández; Victoria Cachofeiro; Vicente Lahera; Gloria Balfagón. Rosuvastatin restored adrenergic and nitrergic function in mesenteric arteries from obese rats.British journal of pharmacology. 162 - 1, pp. 271 - 356. 01/2011. ISSN 1476-5381

45 Beatriz Martín Fernández; Natalia de las Heras; María Miana; Sandra Ballesteros; Carmen Delgado; Su Song; Thomas Hintze; Victoria Cachofeiro; Vicente Lahera. Structural, functional, and molecular alterations produced by aldosterone plus salt in rat heart: association with enhanced serum and glucocorticoid-regulated kinase-1 expression.Journal of cardiovascular pharmacology. 57 - 1, pp. 114 - 135. 01/2011. ISSN 1533-4023

46 Victoria Cachofeiro; Natalia López Andrés; Maria Miana; Beatriz Martín Fernández; Natalia de Las Heras; Ernesto Martínez; Vicente Lahera; María Antonia Fortuño. Aldosterone and the cardiovascular system: a dangerous association.Hormone molecular biology and clinical investigation. 4 - 2, pp. 539 - 587. (Alemania): 01/12/2010. ISSN 1868-1883

47 Tarik Smani; Eva Calderón Sanchez; Nieves Gómez Hurtado; María Fernández Velasco; Victoria Cachofeiro; Vicente Lahera; Antonio Ordoñez; Carmen Delgado. Mechanisms underlying the activation of L-type calcium channels by urocortin in rat ventricular myocytes.Cardiovascular research. 87 - 3, pp. 459 - 525. 01/08/2010. ISSN 1755-3245

48 Christian F Rueda Clausen; Vicente Lahera; Jaime Calderón; Isabel Cristina Bolivar; Victor R Castillo; Melquisedec Gutiérrez; Marisol Carreño; Maria del Pilar Oubiña; Victoria Cachofeiro; Patricio López Jaramillo. The presence of abdominal obesity is associated with changes in vascular function independently of other cardiovascular risk factors.International journal of cardiology. 139 - 1, pp. 32 - 73. 18/02/2010. ISSN 1874-1754

49 Jose J Zamorano León; Javier Modrego; Petra J Mateos Cáceres; Carlos Macaya; Beatriz Martín Fernández; María Miana; Natalia de las Heras; Victoria Cachofeiro; Vicente Lahera; Antonio J López Farré. A proteomic approach to determine changes in proteins involved in the myocardial metabolism in left ventricles of spontaneously hypertensive rats.Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology. 25 - 2-3, pp. 347 - 405. (Suiza): 2010. ISSN 1421-9778

50 Natalia de las Heras; Beatriz Martín Fernández; Maria Miana; Sandra Ballesteros; Maria Pilar Oubiña; Antonio J López Farré; Victoria Cachofeiro; Vicente Lahera. The protective effect of irbesartan in rats fed a high fat diet is associated with modification of leptin-adiponectin imbalance.Journal of hypertension. Supplement : official journal of the International Society of Hypertension. 27 - 6, pp. S37. 08/2009. ISSN 1747-3667

51 Beatriz Martin Fernandez; María Miana; Natalia De Las Heras; Gema Ruiz Hurtado; María Fernandez Velasco; Manuel Bas; Sandra Ballesteros; Vicente Lahera; Victoria Cachofeiro; Carmen Delgado. Cardiac L-type calcium current is increased in a model of hyperaldosteronism in the rat.Experimental physiology. 94 - 6, pp. 675 - 758. 06/2009. ISSN 1469-445X

52 Christian F Rueda Clausen; Patricio López Jaramillo; Carlos Luengas; Maria del Pilar Oubiña; Victoria Cachofeiro; Vicente Lahera. Inflammation but not endothelial dysfunction is associated with the severity of coronary artery disease in dyslipidemic subjects.Mediators of inflammation. 2009, pp. 469169. 2009. ISSN 1466-1861

53 Victoria Cachofeiro; Marian Goicochea; Soledad García de Vinuesa; Pilar Oubiña; Vicente Lahera; José Luño. Oxidative stress and inflammation, a link between chronic kidney disease and cardiovascular disease.Kidney international. Supplement. pp. S4. 12/2008. ISSN 0098-6577

54 Lívia Emy Fukuda; Ana Paula Couto Davel; Sidney Verissimo Filho; Lucia Rossetti Lopes; Victoria Cachofeiro; Vicente Lahera; Luciana Venturini Rossoni. Fenofibrate and pioglitazone do not ameliorate the altered vascular reactivity in aorta of isoproterenol-treated rats.Journal of cardiovascular pharmacology. 52 - 5, pp. 413 - 434. 11/2008. ISSN 1533-4023

55 Vivencio Barrios; Carlos Escobar; Alberto Calderon; Vicente Lahera. N-acetylcysteine for the prevention of atrial fibrillation: beyond its antioxidant effect.European heart journal. 29 - 22, pp. 2822. 11/2008. ISSN 1522-9645

56 Ana Paula C Davel; Livia E Fukuda; Larissa Lima De Sá; Carolina D Munhoz; Cristoforo Scavone; David Sanz Rosa; Victoria Cachofeiro; Vicente Lahera; Luciana V Rossoni. Effects of isoproterenol treatment for 7 days on inflammatory mediators in the rat aorta.American journal of physiology. Heart and circulatory physiology. 295 - 1, pp. H211. 07/2008. ISSN 0363-6135

57 Vicente Lahera; Victoria Cachofeiro. Specific amelioration of cerebral endothelial dysfunction in hypertensive patients treated with atorvastatin.American journal of hypertension. 21 - 6, pp. 604. 06/2008. ISSN 0895-7061

58 Victoria Cachofeiro; Maria Miana; Natalia de Las Heras; Beatriz Martín Fernández; Sandra Ballesteros; Jesús Fernández Tresguerres; Vicente Lahera. Aldosterone and the vascular system.The Journal of steroid biochemistry and molecular biology. 109 - 3-5, pp. 331 - 336. 04/2008. ISSN 0960-0760

59 Luis A Alvarez Sala; Victoria Cachofeiro; Luis Masana; Carmen Suarez; Blanca Pinilla; Nuria Plana; Ferran Trias; Miguel Angel Moreno; Gemma Gambus; Vicente Lahera; Xavier Pintó. Effects of fluvastatin extended-release (80 mg) alone and in combination with ezetimibe (10 mg) on low-density lipoprotein cholesterol and inflammatory parameters in patients with primary hypercholesterolemia: a 12-week, multicenter, randomized, open-label, parallel-group study.Clinical therapeutics. 30 - 1, pp. 84 - 181. 01/2008. ISSN 1879-114X

60 Natalia de las Heras; Marta Ruiz Ortega; María Miana; Mónica Rupérez; David Sanz Rosa; Paloma Aragoncillo; Sergio Mezzano; Victoria Cachofeiro; Jesús Egido; Vicente Lahera. Interactions between aldosterone and connective tissue growth factor in vascular and renal damage in spontaneously hypertensive rats.Journal of hypertension. 25 - 3, pp. 629 - 667. 03/2007. ISSN 0263-6352

61 Patricio López Jaramillo; Lina P Pradilla; Víctor R Castillo; Vicente Lahera. [Socioeconomic pathology as a cause of regional differences in the prevalence of metabolic syndrome and pregnancy-induced hypertension].Revista española de cardiología. 60 - 2, pp. 168 - 246. (España): 02/2007. ISSN 1579-2242

62 Vicente Lahera; Marian Goicoechea; Soledad García de Vinuesa; María Miana; Natalia de las Heras; Victoria Cachofeiro; José Luño. Endothelial dysfunction, oxidative stress and inflammation in atherosclerosis: beneficial effects of statins.Current medicinal chemistry. 14 - 2, pp. 243 - 251. 2007. ISSN 0929-8673

63 Marian Goicoechea; Soledad García de Vinuesa; Vicente Lahera; Victoria Cachofeiro; Francisco Gómez Campderá; Almudena Vega; Soraya Abad; José Luño. Effects of atorvastatin on inflammatory and fibrinolytic parameters in patients with chronic kidney disease.Journal of the American Society of Nephrology : JASN. 17 - 12 Suppl 3, pp. S231. 12/2006. ISSN 1046-6673

64 Soledad García de Vinuesa; Marian Goicoechea; Julia Kanter; Marta Puerta; Victoria Cachofeiro; Vicente Lahera; Francisco Gómez Campderá; José Luño. Insulin resistance, inflammatory biomarkers, and adipokines in patients with chronic kidney disease: effects of angiotensin II blockade.Journal of the American Society of Nephrology : JASN. 17 - 12 Suppl 3, pp. S206. 12/2006. ISSN 1046-6673

65 Vicente Lahera; Marian Goicoechea; Soledad García de Vinuesa; Pilar Oubiña; Victoria Cachofeiro; Francisco Gómez Campderá; Raquel Amann; José Luño. Oxidative stress in uremia: the role of anemia correction.Journal of the American Society of Nephrology : JASN. 17 - 12 Suppl 3, pp. S174. 12/2006. ISSN 1046-6673

66 Natalia de las Heras; Marta Ruiz Ortega; Mónica Rupérez; David Sanz Rosa; María Miana; Paloma Aragoncillo; Sergio Mezzano; Vicente Lahera; Jesus Egido; Victoria Cachofeiro. Role of connective tissue growth factor in vascular and renal damage associated with hypertension in rats. Interactions with angiotensin II.Journal of the renin-angiotensin-aldosterone system : JRAAS. 7 - 4, pp. 192 - 392. 12/2006. ISSN 1470-3203

67 Patricio López Jaramillo; Lina P Pradilla; Vicente Lahera; Federico A Silva Sieger; Christian F Rueda Clausen; Gustavo A Márquez. A randomized, double blind, cross-over, placebo-controlled clinical trial to assess the effects of Candesartan on the insulin sensitivity on non diabetic, non hypertense subjects with dysglyce mia and abdominal obesity. "ARAMIA".Trials. 7, pp. 28. 2006. ISSN 1745-6215

68 V Lahera; V Cachofeiro; G Balfagon; J L Rodicio. Aldosterone and its blockade: a cardiovascular and renal perspective.TheScientificWorldJournal. 6, pp. 413 - 437. 2006. ISSN 1537-744X

69 Javier Blanco Rivero; Victoria Cachofeiro; Vicente Lahera; Rosa Aras Lopez; Iván Márquez Rodas; Mercedes Salaices; Fabiano E Xavier; Mercedes Ferrer; Gloria Balfagón. Participation of prostacyclin in endothelial dysfunction induced by aldosterone in normotensive and hypertensive rats.Hypertension. 46 - 1, pp. 107 - 119. 07/2005. ISSN 1524-4563

70 David Sanz Rosa; Eva Cediel; Natalia de las Heras; Maria Miana; Gloria Balfagón; Vicente Lahera; Victoria Cachofeiro. Participation of aldosterone in the vascular inflammatory response of spontaneously hypertensive rats: role of the NFkappaB/IkappaB system.Journal of hypertension. 23 - 6, pp. 1167 - 1239. 06/2005. ISSN 0263-6352

71 Eva Cediel; Natalia de Las Heras; David Sanz Rosa; Olga Velasco; Victoria Cachofeiro; Vicente Lahera. AT-1 receptor antagonism modifies the mediation of endothelin-1, thromboxane A2, and catecholamines in the renal constrictor response to angiotensin II.Kidney international. Supplement. pp. S3. 01/2005. ISSN 0098-6577

72 David Sanz Rosa; M Pilar Oubiña; Eva Cediel; Natalia de Las Heras; Onofre Vegazo; Javier Jiménez; Vicente Lahera; Victoria Cachofeiro. Effect of AT1 receptor antagonism on vascular and circulating inflammatory mediators in SHR: role of NF-kappaB/IkappaB system.American journal of physiology. Heart and circulatory physiology. 288 - 1, pp. H111. 01/2005. ISSN 0363-6135

73 Carmen Castillo; Mar Cruzado; Carmen Ariznavarreta; Pablo Gil Loyzaga; Vicente Lahera; Victoria Cachofeiro; Jesús A F Tresguerres. Effect of recombinant human growth hormone administration on body composition and vascular function and structure in old male Wistar rats.Biogerontology. 6 - 5, pp. 303 - 315. 2005. ISSN 1389-5729

74 C Castillo; M Cruzado C Ariznavarreta; V Lahera; V Cachofeiro; P Gil Loyzaga; Jesús A F Tresguerres. Effects of ovariectomy and growth hormone administration on body composition and vascular function and structure in old female rats.Biogerontology. 6 - 1, pp. 49 - 109. 2005. ISSN 1389-5729

75 Gloria Balfagón; Iván Márquez Rodas; Yolanda Alvarez; María Jesús Alonso; Victoria Cachofeiro; Mercedes Salaices; Vicente Lahera. Aldosterone modulates neural vasomotor response in hypertension: role of calcitonin gene-related peptide.Regulatory peptides. 120 - 1-3, pp. 253 - 313. 15/08/2004. ISSN 0167-0115

76 Beatriz Somoza; Carmen González; Victoria Cachofeiro; Vicente Lahera; María S Fernández Alfonso. Chronic l-arginine treatment reduces vascular smooth muscle cell hypertrophy through cell cycle modifications in spontaneously hypertensive rats.Journal of hypertension. 22 - 4, pp. 751 - 759. 04/2004. ISSN 0263-6352

77 M Pilar Oubiña; Natalia de las Heras; Eva Cediel; David Sanz Rosa; Paloma Aragoncillo; Cristina Díaz; Gonzalo Hernández; Vicente Lahera; Victoria Cachofeiro. Synergistic effect of angiotensin-converting enzyme (ACE) and 3-hydroxy-3-methylglutaryl-CoA (HMG-CoA) reductase inhibition on inflammatory markers in atherosclerotic rabbits.Clinical science (London, England : 1979). 105 - 6, pp. 655 - 717. 12/2003. ISSN 0143-5221

78 C Castillo; M Cruzado; C Ariznavarreta; P Gil Loyzaga; V Lahera; V Cachofeiro; J A F Tresguerres. Body composition and vascular effects of growth hormone administration in old female rats.Experimental gerontology. 38 - 9, pp. 971 - 980. 09/2003. ISSN 0531-5565

79 Eva Cediel; David Sanz Rosa; M Pilar Oubina; Natalia de las Heras; Francisco R González Pacheco; Onofre Vegazo; Javier Jiménez; Victoria Cachofeiro; Vicente Lahera. Effect of AT1 receptor blockade on hepatic redox status in SHR: possible relevance for endothelial function?. American journal of physiology. Regulatory, integrative and comparative physiology. 285 - 3, pp. R674. 09/2003. ISSN 0363-6119

80 Natalia de las Heras; Eva Cediel; M Pilar Oubiña; Paloma Aragoncillo; David Sanz Rosa; Vicente Lahera; Victoria Cachofeiro. Comparison between the effects of mixed dyslipidaemia and hypercholesterolaemia on endothelial function, atherosclerotic lesions and fibrinolysis in rabbits.Clinical science (London, England : 1979). 104 - 4, pp. 357 - 422. 04/2003. ISSN 0143-5221

81 V Lahera; E Cediel; N de las Heras; S Vázquez Pérez; D Sanz Rosa; B Vázquez Cruz; V Cachofeiro. [Endothelial dysfunction in hypertension].Nefrología : publicación oficial de la Sociedad Española Nefrologia. 23 Suppl 4, pp. 3 - 15. (España): 2003. ISSN 0211-6995

82 Victoria Cachofeiro; Lourdes A Fortepiani; Josefa Navarro Cid; Vicente Lahera; Joaquín García Estañ. Renal dysfunction after chronic blockade of nitric oxide synthesis.Antioxidants & redox signaling. 4 - 6, pp. 885 - 976. 12/2002. ISSN 1523-0864

83 Eva Cediel; Beatriz Vázquez Cruz; Josefa Navarro Cid; Natalia de las Heras; David Sanz Rosa; Victoria Cachofeiro; Vicente Lahera. Role of endothelin-1 and thromboxane A2 in renal vasoconstriction induced by angiotensin II in diabetes and hypertension.Kidney international. Supplement. pp. S2. 12/2002. ISSN 0098-6577

84 M Pilar Oubiña; Natalia de Las Heras; Sandra Vázquez Pérez; Eva Cediel; David Sanz Rosa; Luis M Ruilope; Victoria Cachofeiro; Vicente Lahera. Valsartan improves fibrinolytic balance in atherosclerotic rabbits.Journal of hypertension. 20 - 2, pp. 303 - 313. 02/2002. ISSN 0263-6352

85 Vivencio Barrios; Alberto Calderón; Josefa Navarro Cid; Vicente Lahera; Luis M Ruilope. N-acetylcysteine potentiates the antihypertensive effect of ACE inhibitors in hypertensive patients.Blood pressure. 11 - 4, pp. 235 - 244. (Noruega): 2002. ISSN 0803-7051

86 S Vázquez Pérez; J Navarro Cid; N de las Heras; E Cediel; D Sanz Rosa; L M Ruilope; V Cachofeiro; V Lahera. Relevance of endothelium-derived hyperpolarizing factor in the effects of hypertension on rat coronary relaxations.Journal of hypertension. 19 - 3 Pt 2, pp. 539 - 584. 03/2001. ISSN 0263-6352

87 S Vázquez Pérez; P Aragoncillo; N de Las Heras; J Navarro Cid; E Cediel; D Sanz Rosa; L M Ruilope; C Díaz; G Hernández; V Lahera; V Cachofeiro. Atorvastatin prevents glomerulosclerosis and renal endothelial dysfunction in hypercholesterolaemic rabbits.Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association. 16 Suppl 1, pp. 40 - 44. 2001. ISSN 0931-0509

88 P Aragoncillo; R Maeso; S Vázquez Pérez; J Navarro Cid; L M Ruilope; C Díaz; G Hernández; V Lahera; V Cachofeiro. The protective role of atorvastatin on function, structure and ultrastructure in the aorta of dyslipidemic rabbits.Virchows Archiv : an international journal of pathology. 437 - 5, pp. 545 - 599. (Alemania): 11/2000. ISSN 0945-6317

89 R Maeso; P Aragoncillo; J Navarro Cid; L M Ruilope; C Diaz; G Hernández; V Lahera; V Cachofeiro. Effect of atorvastatin on endothelium-dependent constrictor factors in dyslipidemic rabbits.General pharmacology. 34 - 4, pp. 263 - 335. 04/2000. ISSN 0306-3623

90 R Maeso; J Navarro Cid; E Rodrigo; L M Ruilope; V Lahera; V Cachofeiro. Differential effects of losartan and doxazosin on vascular function in senescent spontaneously hypertensive rats.American journal of hypertension. 12 - 11 Pt 1, pp. 1105 - 1113. 11/1999. ISSN 0895-7061

91 N de las Heras; P Aragoncillo; R Maeso; S Vazquez Pérez; J Navarro Cid; M DeGasparo; J Mann; L M Ruilope; V Cachofeiro; V Lahera. AT(1) receptor antagonism reduces endothelial dysfunction and intimal thickening in atherosclerotic rabbits.Hypertension. 34 - 4 Pt 2, pp. 969 - 1044. 10/1999. ISSN 0194-911X

92 R Maeso; J Navarro Cid; E Rodrigo; L M Ruilope; V Cachofeiro; V Lahera. Effects of antihypertensive therapy on factors mediating endothelium-dependent relaxation in rats treated chronically with L-NAME.Journal of hypertension. 17 - 2, pp. 221 - 228. 02/1999. ISSN 0263-6352

93 L A Fortepiani; E Rodrigo; M C Ortíz; V Cachofeiro; N M Atucha; L M Ruilope; V Lahera; J García Estañ. Pressure natriuresis in nitric oxide-deficient hypertensive rats: effect of antihypertensive treatments.Journal of the American Society of Nephrology : JASN. 10 - 1, pp. 21 - 28. 01/1999. ISSN 1046-6673

94 V Lahera; J Navarro Cid; R Maeso; V Cachofeiro. [Participation of endothelium-derived vasoconstrictor factors in arterial hypertension].Revista española de cardiología. 52 Suppl 3, pp. 4 - 15. (España): 1999. ISSN 0300-8932

95 R Maeso; E Rodrigo; R Muñoz García; J Navarro Cid; L M Ruilope; V Cachofeiro; V Lahera. Factors involved in the effects of losartan on endothelial dysfunction induced by aging in SHR.Kidney international. Supplement. 68, pp. S30. 12/1998. ISSN 0098-6577

96 J Campión; V Lahera; V Cachofeiro; B Maestro; N Dávila; M C Carranza; C Calle. In vivo tissue specific modulation of rat insulin receptor gene expression in an experimental model of mineralocorticoid excess.Molecular and cellular biochemistry. 185 - 1-2, pp. 177 - 259. 08/1998. ISSN 0300-8177

97 R Maeso; E Rodrigo; R Muñoz García; J Navarro Cid; L M Ruilope; V Cachofeiro; V Lahera. Chronic treatment with losartan ameliorates vascular dysfunction induced by aging in spontaneously hypertensive rats.Journal of hypertension. 16 - 5, pp. 665 - 737. 05/1998. ISSN 0263-6352

98 R Maeso; E Rodrigo; R Muñoz Garcia; J Navarro Cid; L M Ruilope; V Lahera; V Cachofeiro. Losartan reduces constrictor responses to endothelin-1 and the thromboxane A2 analogue in aortic rings from spontaneously hypertensive rats: role of nitric oxide.Journal of hypertension. 15 - 12 Pt 2, pp. 1677 - 1761. 12/1997. ISSN 0263-6352

99 C Campo; O Garcia Vallejo; V Barrios; V Lahera; M Manero; E Esteban; J L Rodicio; L M Ruilope. The natriuretic effect of nifedipine gastrointestinal therapeutic system remains despite the presence of mild-to-moderate renal failure.Journal of hypertension. 15 - 12 Pt 2, pp. 1803 - 1811. 12/1997. ISSN 0263-6352

100 A Andrés; J M Morales; M Praga; C Campo; V Lahera; R García Robles; J L Rodicio; L M Ruilope. L-arginine reverses the antinatriuretic effect of cyclosporin in renal transplant patients.Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association. 12 - 7, pp. 1437 - 1477. 07/1997. ISSN 0931-0509

101 E Rodrigo; R Maeso; R Muñoz García; J Navarro Cid; L M Ruilope; V Cachofeiro; V Lahera. Endothelial dysfunction in spontaneously hypertensive rats: consequences of chronic treatment with losartan or captopril.Journal of hypertension. 15 - 6, pp. 613 - 621. 06/1997. ISSN 0263-6352

102 V Lahera; J Navarro Cid; V Cachofeiro; J García Estañ; L M Ruilope. Nitric oxide, the kidney, and hypertension.American journal of hypertension. 10 - 1, pp. 129 - 169. 01/1997. ISSN 0895-7061

103 R Maeso; J Navarro Cid; R Muñoz García; E Rodrigo; L M Ruilope; V Lahera; V Cachofeiro. Losartan reduces phenylephrine constrictor response in aortic rings from spontaneously hypertensive rats. Role of nitric oxide and angiotensin II type 2 receptors.Hypertension. 28 - 6, pp. 967 - 1039. 12/1996. ISSN 0194-911X

104 L M Ruilope; C Campo; F Rodriguez Artalejo; V Lahera; R Garcia Robles; J L Rodicio. Blood pressure and renal function: therapeutic implications.Journal of hypertension. 14 - 11, pp. 1259 - 1322. 11/1996. ISSN 0263-6352

105 J Navarro Cid; R Maeso; E Rodrigo; R Muñoz García; L M Ruilope; V Lahera; V Cachofeiro. Renal and vascular consequences of the chronic nitric oxide synthase inhibition. Effects of antihypertensive drugs.American journal of hypertension. 9 - 11, pp. 1077 - 1160. 11/1996. ISSN 0895-7061

106 J Navarro Cid; R Maeso; F Perez Vizcaino; M C Casal; V Cachofeiro; L M Ruilope; J Tamargo; V Lahera. Effects of antihypertensive drugs on blood pressure and metabolic alterations in the fructose-induced hypertensive rat.American journal of hypertension. 9 - 7, pp. 669 - 743. 07/1996. ISSN 0895-7061

107 C Campo; V Lahera; R Garcia Robles; V Cachofeiro; J M Alcazar; A Andres; J L Rodicio; L M Ruilope. Aging abolishes the renal response to L-arginine infusion in essential hypertension.Kidney international. Supplement. 55, pp. S126. 06/1996. ISSN 0098-6577

108 J García Estan; J Navarro; N M Atucha; T Quesada; J C Romero; V Cachofeiro; V Lahera. Chronic effects of nitric oxide and prostaglandin inhibition on pressure diuresis and natriuresis in rats.Kidney international. Supplement. 55, pp. S141. 06/1996. ISSN 0098-6577

109 M C Ortíz; N M Atucha; V Lahera; F Vargas; T Quesada; J García Estan. Importance of nitric oxide and prostaglandins in the control of rat renal papillary blood flow.Hypertension. 27 - 3 Pt 1, pp. 377 - 458. 03/1996. ISSN 0194-911X

110 V Cachofeiro; R Maeso; R Muñoz Garcia; V Lahera. The potential role of nitric oxide in angiotensin II-receptor blockade.Blood pressure. Supplement. 2, pp. 29 - 64. (Noruega): 1996. ISSN 0803-8023

111 R Munoz Garcia; R Maeso; E Rodrigo; J Navarro; L M Ruilope; M C Casal; V Cachofeiro; V Lahera. Acute renal excretory actions of losartan in spontaneously hypertensive rats: role of AT2 receptors, prostaglandins, kinins and nitric oxide.Journal of hypertension. 13 - 12 Pt 2, pp. 1779 - 1863. 12/1995. ISSN 0263-6352

112 J Navarro Cid; R Maeso; F Perez Vizcaino; V Cachofeiro; L M Ruilope; J Tamargo; V Lahera. Effects of losartan on blood pressure, metabolic alterations, and vascular reactivity in the fructose-induced hypertensive rat.Hypertension. 26 - 6 Pt 2, pp. 1074 - 1082. 12/1995. ISSN 0194-911X

113 C Suárez; C del Arco; V Lahera; L M Ruilope. N-acetylcysteine potentiates the antihypertensive effect of angiotensin converting enzyme inhibitors.American journal of hypertension. 8 - 8, pp. 859. 08/1995. ISSN 0895-7061

114 V Cachofeiro; R Maeso; E Rodrigo; J Navarro; L M Ruilope; V Lahera. Nitric oxide and prostaglandins in the prolonged effects of losartan and ramipril in hypertension.Hypertension. 26 - 2, pp. 236 - 279. 08/1995. ISSN 0194-911X

115 J Navarro; A Sanchez; J Sáiz; L M Ruilope; J García Estań; J C Romero; S Moncada; V Lahera. Hormonal, renal, and metabolic alterations during hypertension induced by chronic inhibition of NO in rats.The American journal of physiology. 267 - 6 Pt 2, pp. R1516. 12/1994. ISSN 0002-9513

116 L O Lerman; M R Bell; V Lahera; J A Rumberger; P F Sheedy; A Sanchez Fueyo; J C Romero. Quantification of global and regional renal blood flow with electron beam computed tomography.American journal of hypertension. 7 - 9 Pt 1, pp. 829 - 866. 09/1994. ISSN 0895-7061

117 L M Ruilope; V Lahera; J M Alcázar; M Praga; C Campo; J L Rodicio. Randomly allocated study of the effects of standard therapy versus ACE inhibition on micro-albuminuria in essential hypertension.Journal of hypertension. Supplement : official journal of the International Society of Hypertension. 12 - 4, pp. S59. 07/1994. ISSN 0952-1178

118 L M Ruilope; V Lahera; J L Rodicio; J C Romero. Participation of nitric oxide in the regulation of renal function: possible role in the genesis of arterial hypertension.Journal of hypertension. 12 - 6, pp. 625 - 656. 06/1994. ISSN 0263-6352

119 L M Ruilope; V Lahera; A Araque; C Suarez; J L Rodicio; J C Romero. Electrolyte excretion and sodium intake.The American journal of the medical sciences. 307 Suppl 1, pp. S107. 02/1994. ISSN 0002-9629

120 L M Ruilope; J M Alcázar; E Hernández; M Praga; V Lahera; J L Rodicio. Long-term influences of antihypertensive therapy on microalbuminuria in essential hypertension.Kidney international. Supplement. 45, pp. S171. 02/1994. ISSN 0098-6577

121 L M Ruilope; V Lahera; J L Rodicio; J Carlos Romero. Are renal hemodynamics a key factor in the development and maintenance of arterial hypertension in humans?. Hypertension. 23 - 1, pp. 3 - 12. 01/1994. ISSN 0194-911X

122 L M Ruilope; V Lahera; J L Rodicio. Evaluation of the renal effects of calcium antagonists.Journal of cardiovascular pharmacology. 23 Suppl 5, pp. S49. 1994. ISSN 0160-2446

123 V Lahera; A A Khraibi; J C Romero. Sulfhydryl group donors potentiate the hypotensive effect of acetylcholine in rats.Hypertension. 22 - 2, pp. 156 - 216. 08/1993. ISSN 0194-911X

124 L M Ruilope; V Lahera. Influence of salt intake on the antihypertensive effect of carvedilol.Journal of hypertension. Supplement : official journal of the International Society of Hypertension. 11 - 4, pp. S17. 06/1993. ISSN 0952-1178

125 V Lahera; J Navarro; M L Biondi; L M Ruilope; J C Romero. Exogenous cGMP prevents decrease in diuresis and natriuresis induced by inhibition of NO synthesis.The American journal of physiology. 264 - 2 Pt 2, pp. F344. 02/1993. ISSN 0002-9513

126 L M Ruilope; A Araque; V Lahera; C Suarez. Antihypertensive effect of nitrendipine in the hypertensive patient with renal impairment.Renal failure. 15 - 3, pp. 359 - 422. 1993. ISSN 0886-022X

127 L M Ruilope; C Campo; V Lahera. The kidney and arterial hypertension.Drugs. 46 Suppl 2, pp. 108 - 120. (Nueva Zelanda): 1993. ISSN 0012-6667

128 L M Ruilope; M C Casal; M Praga; J M Alcazar; G Decap; V Lahera; J L Rodicio. Additive antiproteinuric effect of converting enzyme inhibition and a low protein intake.Journal of the American Society of Nephrology : JASN. 3 - 6, pp. 1307 - 1318. 12/1992. ISSN 1046-6673

129 V Lahera; J Salazar; M G Salom; J C Romero. Deficient production of nitric oxide induces volume-dependent hypertension.Journal of hypertension. Supplement : official journal of the International Society of Hypertension. 10 - 7, pp. S173. 12/1992. ISSN 0952-1178

130 M G Salom; V Lahera; F Miranda Guardiola; J C Romero. Blockade of pressure natriuresis induced by inhibition of renal synthesis of nitric oxide in dogs.The American journal of physiology. 262 - 5 Pt 2, pp. F718. 05/1992. ISSN 0002-9513

131 J C Romero; V Lahera; M G Salom; M L Biondi. Role of the endothelium-dependent relaxing factor nitric oxide on renal function.Journal of the American Society of Nephrology : JASN. 2 - 9, pp. 1371 - 1458. 03/1992. ISSN 1046-6673

132 L M Ruilope; M C Casal; L Guerrero; J M Alcázar; M L Férnandez; V Lahera; J L Rodicio. Sodium intake does not influence the effect of verapamil in hypertensive patients with mild renal insufficiency.Drugs. 44 Suppl 1, pp. 94 - 102. (Nueva Zelanda): 1992. ISSN 0012-6667

133 V Lahera; M G Salom; F Miranda Guardiola; S Moncada; J C Romero. Effects of NG-nitro-L-arginine methyl ester on renal function and blood pressure.The American journal of physiology. 261 - 6 Pt 2, pp. F1033. 12/1991. ISSN 0002-9513

134 V Lahera; L M Ruilope; J C Romero. A single mechanism to explain the effect of calcium on renal function.American journal of hypertension. 4 - 7 Pt 2, pp. 473S. 07/1991. ISSN 0895-7061

135 V Lahera; M G Salom; M J Fiksen Olsen; J C Romero. Mediatory role of endothelium-derived nitric oxide in renal vasodilatory and excretory effects of bradykinin.American journal of hypertension. 4 - 3 Pt 1, pp. 260 - 262. 03/1991. ISSN 0895-7061

136 V Lahera. [Relaxing endothelium factor in cardiovascular disease].Medicina clínica. 96 - 3, pp. 95 - 102. (España): 26/01/1991. ISSN 0025-7753

137 M G Salom; V Lahera; J C Romero. Role of prostaglandins and endothelium-derived relaxing factor on the renal response to acetylcholine.The American journal of physiology. 260 - 1 Pt 2, pp. F145. 01/1991. ISSN 0002-9513

138 V Lahera; M G Salom; M J Fiksen Olsen; L Raij; J C Romero. Effects of NG-monomethyl-L-arginine and L-arginine on acetylcholine renal response.Hypertension. 15 - 6 Pt 1, pp. 659 - 722. 06/1990. ISSN 0194-911X

139 V Lahera; M J Fiksen Olsen; J C Romero. Role of prostaglandins in the renal response to calcium infusion.The American journal of physiology. 258 - 4 Pt 2, pp. F1096. 04/1990. ISSN 0002-9513

140 V Lahera; M J Fiksen Olsen; J C Romero. Stimulation of renin release by intrarenal calcium infusion.Hypertension. 15 - 2 Suppl, pp. I149. 02/1990. ISSN 0194-911X

141 L M Ruilope; A Oliet; J M Alcázar; E Hernández; A Andrés; J L Rodicio; R García Robles; J Martínez; V Lahera; J C Romero. Characterization of the renal effects of an intravenous calcium gluconate infusion in normotensive volunteers.Journal of hypertension. Supplement : official journal of the International Society of Hypertension. 7 - 6, pp. S170. 12/1989. ISSN 0952-1178

142 V Lahera; F Durán; V Cachofeiro; F J Cañizo; J J Cantón; F J Rodriguez; J A Tresguerres. Role of renal prostaglandins in the action of ramipril (HOE-498) in normotensive rats.Prostaglandins, leukotrienes, and essential fatty acids. 35 - 1, pp. 25 - 55. 01/1989. ISSN 0952-3278

143 J C Romero; L M Ruilope; M D Bentley; M J Fiksen Olsen; V Lahera; M J Vidal. Comparison of the effects of calcium antagonists and converting enzyme inhibitors on renal function under normal and hypertensive conditions.The American journal of cardiology. 62 - 11, pp. 59G. 05/10/1988. ISSN 0002-9149

144 V Lahera; V Cachofeiro; F Duran; F J Cañizo; F J Rodriguez; J A Tresguerres. Acute effect of potassium canrenoate administration on renin-angiotensin, kallikrein-kinin and prostaglandin systems.General pharmacology. 19 - 6, pp. 835 - 844. 1988. ISSN 0306-3623

145 V Gil; V Lahera; M C Beneyto; E Lopez Vidriero; F J Rodriguez. Therapeutic effect of captopril once-daily in essential hypertension.Bibliotheca cardiologica. pp. 152 - 157. (Suiza): 1987. ISSN 0067-7906

146 V Lahera; F Durán; V Cachofeiro; F J Cañizo; J A Tresguerres; F J Rodriguez. Different excretion pattern of urinary PGE2 and 6-keto-PGF1 alpha in two kidney-one clip Goldblatt rats.Prostaglandins, leukotrienes, and medicine. 24 - 1, pp. 35 - 76. 09/1986. ISSN 0262-1746

147 V Lahera; V Cachofeiro; F J Cañizo; F Durán; J Parada; F J Rodriguez; A F Tresguerres. Effect of ZK 36 374 on blood pressure, diuresis, plasma renin activity and urinary excretion of prostaglandin E2 and sodium.Prostaglandins, leukotrienes, and medicine. 22 - 3, pp. 265 - 338. 06/1986. ISSN 0262-1746

148 V Lahera; F Durán; V Cachofeiro; F J del Cañizo; F J Rodríguez; J A Tresguerres. Simple radioimmunological method for urinary 6-keto-PGF1 alpha measurement.Revista española de fisiología. 42 - 2, pp. 233 - 241. (España): 06/1986. ISSN 0034-9402

149 F J del Cañizo Gomez; F Durán; V Lahera; M V Cachofeiro; J A Tresguerres; F J Rodriguez; A Orlol Bosch. A radioimmunoassay method for measurement of urinary kinins.Hormone research. 20 - 2, pp. 143 - 152. (Suiza): 1984. ISSN 0301-0163

150 David Sanz Rosa; M Pilar Oubiña; Eva Cediel; Natalia De las Heras; Paloma Aragoncillo; Gloria Balfagón; Victoria Cachofeiro; Vicente Lahera. Eplerenone reduces oxidative stress and enhances eNOS in SHR: vascular functional and structural consequences.Antioxidants & redox signaling. 7 - 9-10, pp. 1294 - 1595. ISSN 1523-0864

151 María Valero Muñoz; Beatriz Martín Fernández; Sandra Ballesteros; Victoria Cachofeiro; Vicente Lahera; Natalia de Las Heras. [Rosuvastatin improves insulin sensitivity in overweight rats induced by high fat diet. Role of SIRT1 in adipose tissue].Clínica e investigación en arteriosclerosis : publicación oficial de la Sociedad Española de Arteriosclerosis. 26 - 4, pp. 161 - 168. (España): ISSN 1578-1879

Gestión de I+D+i y participación en comités científicos

Comités científicos, técnicos y/o asesores

Fecha de inicio: 1997

Otros méritos

Estancias en centros de I+D+i públicos o privados

1 **Entidad de realización:** Mayo Clinic. Dept. Physiology
Ciudad entidad realización: Rochester, MN,
Fecha de inicio: 1992 **Duración:** 140 días
Nombre del programa: Oxido Nitrico y funcion renal
Objetivos de la estancia: Invitado/a

2 **Entidad de realización:** Mayo Clinic. Dept. Physiology
Ciudad entidad realización: Rochester, MN,
Fecha de inicio: 1989
Nombre del programa: Oxido Nitrico y funcion renal
Objetivos de la estancia: Contratado/a

3 **Entidad de realización:** Mayo Clinic. Dept. Physiology
Ciudad entidad realización: Rochester, MN,
Fecha de inicio: 1988
Nombre del programa: Oxido Nitrico y funcion renal
Objetivos de la estancia: Posdoctoral

Resumen de otros méritos

1 **Descripción del mérito:** * American Journal of Hypertension. Edición en Español.

2 **Descripción del mérito:** * Cuadernos Latinoamericanos de Hipertensión.

3 **Descripción del mérito:** * De artículos :

4 **Descripción del mérito:** * De proyectos del área Cardiovascular de la CICYT desde 1995

5 **Descripción del mérito:** * De proyectos del área Cardiovascular del FIS desde 1995

6 **Descripción del mérito:** * De proyectos del área de Fisiología y Farmacología de la ANEP desde 1995

7 **Descripción del mérito:** * De resúmenes enviados a las Reunión Nacional de la Sociedad Española de Hipertensión

8 **Descripción del mérito:** * De resúmenes enviados a las Reunión Nacional de la de Liga Española para la Lucha contra

9 **Descripción del mérito:** * De resúmenes envidos a las Reuniones de la American Heart Association desde 1997

10 **Descripción del mérito:** * Fisiología Humana. Editor. JA F Tresguerres, 10 edición, Ed. Interamericana,1992.

11 **Descripción del mérito:** * Fisiología Humana. Editor. JA F Tresguerres, 20 edición, Ed. Interamericana,1999.

12 **Descripción del mérito:** * Journal of Hypertension. 2000-2002

13 **Descripción del mérito:** * Journal of Hypertension. Edición en Español

14 **Descripción del mérito:** *Current Hypertension Reviews (2004-…)

15 **Descripción del mérito:** *Director de la revista “Clínica e Investigación en Arteriosclerosis” (2006-…)

16 **Descripción del mérito:** *Revista Med-Colombia (2006…)

17 **Descripción del mérito:** - American Heart Association. Fellow of the High Blood Pressure Council.

18 **Descripción del mérito:** - Beca International Fogarty Institute - National Institutes of Health (NIH). 1988-1989

19 **Descripción del mérito:** - Beca de Investigación Biomédica de la Caja de Ahorros y Monte de Piedad de Madrid. 1982

20 **Descripción del mérito:** - Beca de Perfeccionamiento del Personal Investigador. Programa Extranjero. Ministerio de Educación y Ciencia. 1989-1991

21 **Descripción del mérito:** - British Journal of Pharmacology, desde 1997

22 **Descripción del mérito:** - Cardiovascular Research, desde 1997

23 **Descripción del mérito:** - European Journal of Clinical Investigation, desde 1998

24 **Descripción del mérito:** - European Society of Hypertension

25 **Descripción del mérito:** - Hipertension , Revista de la SEH, desde 1992

26 **Descripción del mérito:** - Hypertension, desde 1996

27 **Descripción del mérito:** - I Premio Upjohn de Investigación Biomédica. 1985

28 **Descripción del mérito:** - II Premio Cilag Sociedad Española de Nefrología 1995

29 **Descripción del mérito:** - II Premio Searle de Hipertensión Arterial. 1986

30 **Descripción del mérito:** - III Premio Pfizer de Hipertension Arterial 1993

31 **Descripción del mérito:** - Interamerican Society of Hypertension

32 **Descripción del mérito:** - International Society of Hypertension

33 **Descripción del mérito:** - Journal of Hypertension, desde 1995

34 **Descripción del mérito:** - Life Sciences, desde 1999

35 **Descripción del mérito:** - Liga Española para la Lucha contra la Hipertensión Arterial

36 **Descripción del mérito:** - Premio de la Caja de Ahorros de Madrid para Tesis Doctorales en Biomedicina. 1985.

37 **Descripción del mérito:** - Sociedad Española de Arteriosclerosis

38 **Descripción del mérito:** - Sociedad Española de Ciencias Fisiológicas

39 **Descripción del mérito:** - Sociedad Española de Hipertensión

40 **Descripción del mérito:** - VII Premio Pfizer de Hipertensión Arterial 2000

41 **Descripción del mérito:** -11º Premio Servier de Hipertensión Arterial 2004

42 **Descripción del mérito:** BECAS.

43 **Descripción del mérito:** EVALUADOR

44 **Descripción del mérito:** MIEMBRO DE COMITÉS EDITORIALES

45 **Descripción del mérito:** MIEMBRO DE SOCIEDADES CIENTIFICAS

46 **Descripción del mérito:** PREMIOS

47 **Descripción del mérito:** desde 1995

48 **Descripción del mérito:** la Hipertensión arterial desde 1993

Parte A. DATOS PERSONALES

Fecha del CVA	17-09-2018

Nombre y apellidos	Asunción López-Calderón Barreda		
DNI/NIE/pasaporte		Edad	
	Código Orcid		

A.1. Situación profesional actual

Organismo	Universidad Complutense		
Dpto./Centro	Departamento de Fisiología/ Facultad de Medicina		
Dirección	Plaza de Ramón y Cajal sn		
Teléfono	913941491	correo electrónico	ALC@ucm.es
Categoría profesional	Catedrática de Universidad	Fecha inicio	22-02-2011
Espec. cód. UNESCO	241104		
Palabras clave	Estrés, neuroendocrinologia, inflamación		

A.2. Formación académica *(título, institución, fecha)*

Licenciatura/Grado/Doctorado	Universidad	Año
Licenciada en Ciencias Biológicas	Complutense de Madrid	1977
Licenciada con Grado	Complutense de Madrid	1978
Doctora en Ciencias Biológicas	Complutense de Madrid	1983

A.3. Indicadores generales de calidad de la producción científica *(véanse instrucciones)*

-Seis sexenios, el último concedido en junio de 2015.
-Dos tesis dirigidas entre 2007 y 2017.
- 1344 citas totales
- 72 citas/año en el periodo 2007-2017
- 26 artículos en el Q1 sobre un total de 69 (37,6 %).
- Impacto medio últimos 10 años: 3,17 (17 artículos)
- Índice h = 22.
- Promedio de citas totales por artículo 17

Parte B. RESUMEN LIBRE DEL CURRÍCULUM *(máximo 3500 caracteres, incluyendo espacios en blanco)*

Como Profesora universitaria tiene seis quinquenios reconocidos. La docencia se ha centrado en las disciplinas fisiología humana en los estudios de grado, y neuroendocrinología en los de doctorado, asignaturas de las que ha sido responsable desde 1991. Es autora o coautora de 20 capítulos de libros de texto de fisiología, farmacología y endocrinología y ha editado un manual de fisiología para estudiantes de grados de ciencias de la salud. Ha participado en 6 Proyectos de Innovación y Mejora de la Calidad Docente.

Ha participado en 16 proyectos competitivos de investigación como investigadora principal y en 15 como investigadora asociada.

Su trayectoria científica comenzó en 1978 estudiando el efecto del estrés y de las hormonas del eje adrenal sobre el eje hipotálamo-hipofiso-testicular, siendo investigadora principal desde 1987. Estudió especialmente los mecanismos hipotalámicos responsables del efecto inhibidor del estrés sobre la secreción de gonadotropinas y prolactina. Estos resultados dieron lugar a 23 artículos en revistas citadas en el JCR, una tesina de licenciatura y dos tesis doctorales.

A partir de 1991 comenzó el estudió de la interacción de los sistemas neuroendocrino e inmunitario y sus respuestas al estrés. Centrándose en el efecto del estrés inflamatorio sobre el sistema GH-IGF-I y la atrofia muscular por un lado y por otro en los efectos anti-inflamatorios de algunas hormonas o neuropéptidos como la ghrelina y la hormona estimulante de los melanocitos (MSH). Los resultados han dado lugar a 44 artículos en revistas citadas en el JCR, 10 tesinas y trabajos de fin de Master, 6 tesis doctorales y a una actualmente en curso cuya defensa se prevé para 2018.

Debido a la situación actual en la que la carga docente del profesorado ha aumentado, a la par que se ha reducido el número de personal técnico, unido a los recortes

en I+D+i, ha decidido colaborar con profesores del departamento con líneas de investigación afines, pues también trabajan en estrés, para aunar esfuerzos, plantear metodologías transversales y formar un grupo de mayor tamaño, en el que se priorice la dirección por investigadores más jóvenes y con más años por delante.

Parte C. MÉRITOS MÁS RELEVANTES *(ordenados por tipología)*

C.1. Publicaciones

1.- Martin AI, Gómez-SanMiguel AB, Priego T, **Lopez-Calderon A.** Formoterol treatment prevents the effects of endotoxin on muscle TNF/NF-kB, Akt/mTOR and proteolytic pathways in a rat model. Role of IGF-I and miRNA 29b.Am J Physiol Endocrinol Metab. 2018 Jul 3. doi: 10.1152/ajpendo.00043.2018. [en prensa) (IF en 2017 = 4,018; Q1; 12/83 physiology).

2.- Gómez-SanMiguel AB, Gomez-Moreira C, Nieto-Bona MP, Fernández-Galaz C, Villanúa MA, Martín AI, **López-Calderón A** (2016). Formoterol decreases muscle wasting as well as inflammation in the rat model of rheumatoid arthritis. *Am J Physiol Endocrinol* 310:E925-37. doi: 10.1152/ajpendo.00503.2015. (IF en 2016 = 4,14; Q1; 14/84 physiology).

3.- Gómez-SanMiguel AB, Martín AI, Nieto-Bona MP, Fernández-Galaz C, Villanúa MA, **López-Calderón A** (2016). The melanocortin receptor type 3 (MC3-R) agonist D-Trp(8)-γMSH decreases inflammation and muscle wasting in arthritic rats. *J Cachexia, Sarcopenia and Muscle* 7:79-89. doi: 10.1002/jcsm.12036. (IF en 2016 = 9,69; Q1; 8/154).

4.- Gómez-SanMiguel AB, Villanúa MA, Martín AI, **López-Calderón A** (2016). D-TRP(8)-γMSH prevents the effects of endotoxin in rat skeletal muscle cells through TNFα/NF-κB signalling pathway. PLoS ONE 11(5): e0155645. doi:10.1371/journal.pone.0155645. (IF= 3,057; Q1; 15/64).

5.- Martín AI, Gómez-SanMigue AB, Gómez-Moreira C, Villanúa MA, **López-Calderón A** (2014). αMSH blunts endotoxin-induced MuRF1 and Atrogin-1 upregulation in skeletal muscle by modulating NF-*k*B and Akt/FoxO1 pathway. *Mediators of Inflammation* vol. 2014, Article ID 179368. doi:10.1155/2014/179368. (IF= 3,2; Q2; 58/148).

6.- Gómez-SanMiguel AB, Martín AI, Nieto-Bona MP, Fernández-Galaz C, López-Menduiña M, Villanúa MA, **López-Calderón A (**2013). Systemic alpha melanocyte stimulating hormone administration decreases arthritis-induced anorexia and muscle wasting. *Am J Physiol Reg Integr Comp Physiol* 304:R877-86. (IF=3,5; Q1; 19/81).

7.- Castillero E, Nieto-Bona MP, Fernández-Galaz C, Martín AI, López-Menduiña M, Granado M, Villanúa MA, **López-Calderón A** (2011). Fenofibrate, a PPARα agonist, decreases atrogenes and myostatin expression and improves arthritis-induced skeletal muscle atrophy. *Am J Physiol Endocrinol Metab* 300:E790-9 (IF= 4,74; Q1 8/79).

8.- Castillero E, Martín AI, López-Menduiña M, Granado M, Villanúa MA, **López-Calderón A** (2009). IGF-I system, atrogenes and myogenic regulatory factors in arthritis induced muscle wasting. *Mol Cell Endocrinol* 309: 8-16 (IF= 3,5; Q2; 38/105)

9.- Granado M, Martín AI, López-Menduiña M, **López-Calderón A**, Villanúa MA (2008). GH-releasing peptide-2 administration prevents liver inflammatory response in endotoxemia. *Am J Physiol Endocrinol Metab*. 294:E131-141 (IF= 3,85; Q1; 14/74).

10.- Granado M, Martín AI, Villanúa MA, **López-Calderón A** (2007). Experimental arthritis inhibits the insulin-like growth factor-I (IGF-I) axis and induces muscle wasting through cyclooxygenase-2 (COX-2) activation. *Am J Physiol Endocrinol Metab* 292:E1656-65 (IF= 4,13; Q1; 11/78)

C.2. Proyectos I+D+i

1.- 2017. *Neuroinflamación y epigenética en un modelo de trastorno por estrés postraumático.* Proyectos de investigación Santander – Universidad Complutense 2016 (PR26/16-20299) duración 2017, dotación 9.000 €. Investigadora principal: A López-Calderón.

2.- 2013-2016. *Mecanismos implicados en la caquexia inflamatoria: potencial terapeútico de la MSH y de los agonistas beta-2 adrenérgicos*. Ministerio de Economia y Competitividad. Proyectos de investigación fundamental no orientada, BFU2012-38468, Dotación 81.715 €. Investigadora principal: A López-Calderón

3.- 2010-2012. *Modificaciones de la ingesta y del metabolismo lipídico implicadas en la caquexia inflamatoria: efecto del tratamiento con MSH*. Proyectos de Investigación en Salud del Plan Nacional de I+D+I, FIS PS09/00753. Dotación 110.715 €. Investigadora principal: A López-Calderón

4.- Julio 2008-junio 2010. Papel de la ghrelina y las adipoquinas en la caquexia inflamatoria. Ayudas a la investigación de la Fundación Mutua Madrileña. Dotación 30.000 €. Investigador principal: A López-Calderón.

5.- 2007-2009. *Papel del sistema IGF-I-IGFBPs en la atrofia del músculo esquelético y del tejido adiposo inducida por el estres*. Ministerio de Economia y Hacienda, ABFU2006-11899/BFI. Dotación 94.000 €. Investigadora principal: A López-Calderón

6.- 2004-2006. *Papel del IGF-I y de la IGFBP-3 en la caquexia inducida por el estrés*. Ministerio de ciencia e Innovación, BFI2003-02149,- Dotación 54.000 €. Investigadora principal: MA Villanúa.

C.3. Contratos, méritos tecnológicos o de transferencia

1.- 2009. *Valoración del posible efecto anti-inflamatorio del fármaco Vivia 009*. Contrato de Investigación (Art 11) Vivia Biotech SL. Duración, dotación 10.818,50 €. Investigadora principal: MA Villanúa.

2.- Octubre 2001- abril 2004. *Evaluation of the Antiglucocorticoid Activity of the 21 OH 6,19 Oxido Progesterone and Structural Analogs*. Contrato de Investigación (Art 11) Laboratorios Serono Internacional S.A. Dotación 98.714 $. Investigador principal: JAF. Tresguerres.

C.4. Patentes

C.5. Participación en congresos.
- 5 ponencias en congresos internacionales y 8 en nacionales.
- 61 comunicaciones a congresos internacionales y 67 a congresos nacionales

C.6. Evaluación y planificación
- Evaluadora de diversos proyectos y comisiones encargados por la Agencia Nacional de Evaluación y Prospectiva, desde 1997.
- Evaluadora para revistas: Am J Physiol Endocrinol Metab, Autoimmunity, Clin Chem Lab Med, Eur J Endocrinol, Growth Horm & IGF Res, Inflamm Res, J Endocrinol, J Leuk Biol, Life Sciences, Mol Cell Endocrinol, Reg Peptides, Mediators of Inflammation, Plos One. J Neuroinflammation, Scientific Reports Nature.
- Miembro del jurado del Premio Gonzalo Miño Fugarolas, para jóvenes investigadores 2007.

C.7. Otros
- Directora del Departamento Interfacultativo de Fisiología de la Universidad Complutense de Madrid desde enero de 2018.

- Directora del Departamento de Fisiología de la Facultad de Medicina de la Universidad Complutense de Madrid desde octubre de 2015 hasta enero de 2018.
- Miembro de las Comisiones de Ordenación Académica y de Postgrado de la Facultad de Medicina de la Universidad Complutense de Madrid desde 2006 y 2013.
- Supervisora de la Instalación Radiactiva Central de la Facultad de Medicina de la Universidad Complutense de Madrid desde 1990.

Fecha del CVA	20/02/2019

Parte A. DATOS PERSONALES

Nombre y Apellidos	MARIA JESUS MONTE RIO		
DNI		Edad	
Núm. identificación del investigador	Researcher ID		

A.1. Situación profesional actual

Organismo	Universidad de Salamanca		
Dpto. / Centro	Fisiología y Farmacología / Facultad de Farmacia		
Dirección	Campus Miguel Unamuno, Edificio Departamental. Lab09, 37007, Salamanca		
Teléfono	(34) 923294500 - 1944	Correo electrónico	mjmonte@usal.es
Categoría profesional	Catedrático de Universidad	Fecha inicio	2007
Espec. cód. UNESCO	241100 - Fisiología humana		
Palabras clave	Resistencia a los medicamentos; Mecanismos moleculares de enfermedad		

A.2. Formación académica (titulo, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
Doctor en Farmacia	Universidad de Salamanca	1988
Licenciado en Farmacia	Universidad de Salamanca	1984

A.3. Indicadores generales de calidad de la producción científica

5 Sexenios de Investigación reconocidos, el último concedido en 2015.
PUBLICACIONES:
100 artículos científicos en revistas internacionales. 23 de ellos en los últimos 5 años (desde 2014, inclusive), de los que 17 (73%) son de primer cuartil.
Indice h: 27 (Scopus). Citas totales: 2123. Promedio 183 citas/año en los últimos 5 años.
COMUNICACIONES A CONGRESOS:
Total: 227
24 Comunicaciones orales y 95 Comunicaciones tipo poster presentadas en 70 Congresos de carácter Nacional.
8 Ponencias, 18 Comunicaciones Orales y 82 Comunicaciones tipo poster presentadas en 77 Congresos de carácter Internacional.

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

TRAYECTORIA ACADÉMICA: Licenciada en Farmacia por la Universidad de Salamanca (1984; Premio Extraordinario de Licenciatura), fue becaria del Plan de Formación del Personal Investigador del Ministerio de Educación y Ciencia (MEC) durante 3 años (1985/87). En 1987 obtuvo una plaza de Ayudante L.R.U. Tras doctorarse en Farmacia (1988; Premio Extraordinario de Doctorado) realizó una estancia postdoctoral en el Departamento de Bioquímica de la Universidad de Birmingham, Reino Unido, con una beca Postdoctoral del MEC (1988/89). Se reincorporó al Departamento de Fisiología y Farmacología de la Universidad de Salamanca, en el que fue Profesora Titular (1998/2006) y es actualmente Catedrática (desde 2007). Ha realizado estancias de investigación en las Universidades de California en San Diego y Lisboa.
DOCENCIA: Durante más de 3 décadas ha impartido docencia de 1º y 2º ciclo de Fisiología y Fisiopatología en las Facultades de Farmacia y Biología de la Universidad de Salamanca.

Participó en la organización e impartición de un Programa de Doctorado sobre Fisiopatología y Farmacología, con "Mención de Calidad" del MEC, que dio lugar a un Máster y un Programa de Doctorado actualmente en vigor. Ha dirigido 13 Tesis Doctorales y 16 Tesinas de Licenciatura. Tiene reconocidos 6 quinquenios de Docencia, y ha obtenido la valoración de Desempeño Excelente en el programa Docentia en 2015.

INVESTIGACION: Ha participado en 50 proyectos de investigación, siendo IP en 7. Ha publicado 102 artículos en revistas científicas, en su mayoría de primer cuartil (Hepatology, Journal of Hepatology, Gut, Molecular Pharmacology, American Journal of Physiology, Journal of Medical Genetics, Journal of Pharmacology and Experimental Therapeutics, Biochemical Pharmacology, Biochemical Journal y otros). Hasta el momento estos trabajos han sido citados por otros autores unas 1850 veces. Su índice h es de 27. Ha presentado sus resultados como paneles (177), comunicaciones orales (42) y ponencias (8) en congresos nacionales e internacionales. Tiene reconocidos 5 sexenios de Investigación. Es premio "María de Maztu" de la Universidad de Salamanca a la Excelencia Científica en 2016.

GESTION: Desde 2011 es Directora del Departamento de Fisiología y Farmacología, del que antes fue Subdirectora (2008/11) y Secretaria (2007/08). Desde 2012 es miembro del Consejo de Gobierno de la Universidad de Salamanca, del Claustro Universitario y de varias comisiones de gestión universitaria.

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

1 **Artículo científico**. Di Giacomo, S.; et al. 2018. Chemosensitization of hepatocellular carcinoma cells to sorafenib by β-caryophyllene oxide-induced inhibition of ABC export pumps Archives of Toxicology. (en prensa).
2 **Artículo científico**. Santos-Llamas, A; et al. 2018. Dysregulation of autophagy in rat liver with mitochondrial DNA depletion induced by the nucleoside analogue zidovudine Archives of Toxicology. 92-6, pp.2109-2118.
3 **Artículo científico**. Al-Abdulla, R.; et al. 2018. Epigenetic events involved in OCT1-dependent impaired response of hepatocellular carcinoma to sorafenib British Journal of Pharmacology. (en prensa).
4 **Artículo científico**. Al-Aqil, F.A.; et al. 2018. Interaction of glucocorticoids with FXR/FGF19/FGF21-mediated ileum-liver crosstalk BBA - Molecular Basis of Disease. 1864-9 Pt B, pp.2927-2937.
5 **Artículo científico**. Santamaría, E.; et al. 2018. The epidermal growth factor receptor ligand amphiregulin protects from cholestatic liver injury and regulates bile acids synthesis Hepatology. (en prensa).
6 **Artículo científico**. Monte, M.J.; et al. 2017. ACOX2 deficiency: An inborn error of bile acid synthesis identified in an adolescent with persistent hypertransaminasemia Journal of Hepatology. 66, pp.581-588. ISSN 0168-8278.
7 **Artículo científico**. Blazquez, A.G.; et al. 2017. Lactation during cholestasis: Role of ABC proteins in bile acid traffic across the mammary gland Scientific Reports. 7, pp.7475 DOI:10.1038/s41598-017-06315-8. ISSN 2045-2322.
8 **Artículo científico**. Rau, M.; et al. 2016. Alterations in enterohepatic Fgf15 signalling and changes in bile acid composition depend on localisation of murine intestinal inflammation Inflammatory Bowel Diseases. 22-10, pp.2382-2389. ISSN 1078-0998.
9 **Artículo científico**. Marin, JJ.; et al. 2016. Bile Acids in Physiology, Pathology and Pharmacology.Current Drug Metabolism. 17-1, pp.4-33. ISSN 1875-5453.
10 **Artículo científico**. Nuño-Lámbarri, N.; et al. 2016. Liver cholesterol overload aggravates obstructive cholestasis by inducing oxidative stress and premature death in mice Oxidative Medicine and Cellular Longevity. 2016:9895176.
11 **Artículo científico**. Abu Hayyeh, S.; et al. 2016. Prognostic and mechanistic potential of progesterone sulfates in intrahepatic cholestasis of pregnancy and pruritus gravidarum.Hepatology. 63-4, pp.1287-1385. ISSN 0270-9139.
12 **Artículo científico**. Gonzalez-Sanchez, E.; et al. 2016. Protective role of biliverdin against bile acid-induced oxidative stress in liver cells Free Radical Biology and Medicine. 97, pp.466-477.

13 **Artículo científico**. Estiú, M.C.; et al. 2015. Effect of ursodeoxycholic treatment on the altered progesterone and bile acid homeostasis in the mother-placenta-foetus trio during cholestasis of pregnancy British Journal of Clinical Pharmacology. 79-2, pp.316-329.

14 **Artículo científico**. Lozano, E.; et al. 2015. Enhanced antitumour drug delivery to cholangiocarcinoma through the apical sodium-dependent bile acid transporter (ASBT).Journal of Controlled Release. 216, pp.93-195. ISSN 1873-4995.

15 **Artículo científico**. Romero, MR.; Monte, MJ.; Marin, JJ.2015. Pathophysiological and pharmacological implications of elucidating the molecular bases of the interaction between HBV and the bile acid transporter NTCP.Annals of Hepatology. 14-1, pp.143-147. ISSN 1665-2681.

16 **Artículo científico**. Mascaraque, C.; et al. 2015. The small intestinal mucosa acts as a rutin reservoir to extend flavonoid anti-inflammatory activity in experimental ileitis and colitis Journal of Functional Foods. 13, pp.117-125.

17 **Artículo científico**. Munoz Garrido, P.; et al. 2015. Ursodeoxycholic acid inhibits hepatic cystogenesis in experimental models of polycystic liver disease.Journal of Hepatology. 63-4, pp.952-1013. ISSN 1600-0641.

18 **Artículo científico**. Lozano, E.; et al. 2014. Co-carcinogenic effects of intrahepatic bile acid accumulation in cholangiocarcinoma development Molecular Cancer Research. 12-1, pp.91-100.

19 **Artículo científico**. Hierro, C.; et al. 2014. Liver metabolic/oxidative stress induces hepatic and extrahepatic changes in the expression of the vitamin C transporters SVCT1 and SVCT2 European Journal of Nutrition. 53-2, pp.401-412.

20 **Artículo científico**. Marin, J.J.G.; et al. 2014. Role of reduced intracellular concentrations of active drugs in the lack of response to anticancer chemotherapy Acta Pharmacologica Sinica. 35-1, pp.1-10.

21 **Artículo científico**. Mascaraque, C.; et al. 2014. Rutin has intestinal antiinflammatory effects in the CD4+ CD62L+ T cell transfer model of colitis Pharmacological Research. 90C, pp.48-57.

22 **Artículo científico**. García-Rodríguez, J.L.; et al. 2014. SIRT1 controls the regenerative response in the liver through deacetylation of FXR and histones Hepatology. 59-5, pp.1972-1983.

C.2. Proyectos

1 Estudio multidisciplinar del colangiocarcinoma: diagnóstico, patogenia y nuevas terapias Fundación AECC Investigación contra el cáncer. Proyectos cáncer infantil y cáncer poco frecuente 2017.. Marin, JJG. 01/01/2018-31/12/2020. 300.000 €. Miembro de equipo.

2 Análisis metabolómico sérico para la detección del daño hepático preneoplásico en personas con fragilidad aumentada por la edad (0348_CIE_6_E) Centro Internacional sobre el Envejecimiento (CENIE).. Macías, R.R.(Universidad de Salamanca). 07/11/2018-31/12/2019. 58.685 €. Miembro de equipo.

3 PI16/00598, Quimiorresistencia del adenocarcinoma gástrico: Caracterización de su huella genética y superación mediante edición genómica programada basada en CRISPR/Cas9 (PI16/00598) Fondo de Investigaciones Sanitarias, Instituto de Salud Carlos III.. Proyectos de investigación en salud (AES 2016). Modalidad proyectos en salud. Marin, J.J.G.(Universidad de Salamanca). 01/01/2017-31/12/2019. 159.115 €. Miembro de equipo.

4 Papel del eje FXR/FGF19/FGF21 en la dislipidemia causada por el tratamiento crónico con glucocorticoides (FS/13-2017) Fundación Samuel Solórzano Barruso. Romero, M.R.(Universidad de Salamanca). 01/01/2018-31/12/2018. 501 €. Miembro de equipo.

5 Nueva herramienta molecular con potencial utilidad como supresor tumoral basada en la obtención de células secretoras de péptidos bioactivos portadores de señales de diferenciación con capacidad de penetración celular Fundación General de la Universidad de Salamanca. Plan TCUE. Herraez, E.(Universidad de Salamanca). 01/01/2017-31/12/2018. 9.000 €. Miembro de equipo.

6 Deficiencia parcial de ACOX2 (APD): Una nueva enfermedad rara (OMIM-601641) que cursa con riesgo oculto de lesión hepática (SA063P17) Consejería de Educación de la Junta de Castilla y León. Marin, J.J.G.(Universidad de Salamanca). 01/01/2017-31/01/2018. 40.000 €. Miembro de equipo.

7 SAF2013-40620-R, Implicación de los genes NR1H4, BIRC5 Y SLC22A1 en la quimiorresistencia y quimiosensibilización del cáncer hepático (SAF2013-40620-R) Dirección General de Investigación Científica y Técnica del MINECO. Marin, J.J.G.(Universidad de Salamanca). 01/01/2014-31/12/2016. 121.000 €. Miembro de equipo.

8 SA015U13, Papel de las mutaciones de la proteína de captación de fármacos OCT1 en la refractariedad del carcinoma hepatocelular y el colangiocarcinoma al tratamiento con sorafenib (SA015U13) CONSEJERÍA DE EDUCACIÓN Y CULTURA DE LA JUNTA DE CASTILLA Y LEÓN. Marin, J.J.G.(Universidad de Salamanca). 01/01/2014-31/12/2016. 34.870 €. Miembro de equipo.

C.3. Contratos

1 Elaboración y suministro del anticuerpo monoclonal anti-human FXRalfa PROTEIN ALTERNATIVES SL. Macias, R. I. R.Desde 12/09/2013.

2 Evaluacion externa de anticuerpos para inmunohistoquimica PROTEIN ALTERNATIVES SL. Macias, R. I. R.Desde 2011.

3 Producción y purificacion de anticuerpos monoclonales ENZO LIFE SCIENCES. Marin, J.J.G.Desde 2010.

4 Elaboración y suministro de anticuerpos monoclonales purificados ALEXIS CORPORATION. Marin, J.J.G.2003-P8Y.

C.4. Patentes

CURRÍCULUM VÍTAE NORMALIZADO

JUAN ANTONIO ROSADO DIONISIO

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Mi carrera académica comenzó en 1995 como becario predoctoral. En 1997 defendí mi Tesis Doctoral y realicé una estancia postdoctoral superior a 2 años (1998-2000) en el Department of Physiology (Cambridge University) con Stewart O. Sage. Me incorporé en 2001 a la UEx como Profesor Asociado y en 2002 me consolidé como Profesor Titular. Actualmente soy Catedrático de Universidad desde abril de 2017.

Al margen de la actividad docente, mi carrera investigadora se ha centrado en el estudio de la homeostasis del Ca2+ intracelular, especialmente la entrada capacitativa de Ca2+ y su relación con patologías como el cáncer. Fruto de mis investigaciones he publicado **205 artículos científicos**, citados más de 5800 veces (promedio de 23.68 citas/artículo), de los cuales, 113 están publicados en revistas del primer cuartil de su área de conocimiento, como Blood, Biochimica et Biophysica Acta, Journal of Biological Chemistry, Journal of Physiology o Biochemical Journal. Mi **Índice h es de 45**. He publicado **26 capítulos de libros** y 154 resúmenes de comunicaciones a congresos y he sido invitado para impartir **más de veinte conferencias** por organismos nacionales e internacionales.

Me gustaría significar que he participado en **2 proyectos de I+D internacionales** (Wellcome Trust, Reino Unido), he sido **Investigador Principal de 4 proyectos de investigación nacionales del MEC/MICINN/MINECO**: BFU2007-60104: 157.300 €, BFU2010-21043-C02-01: 219.010 € (proyecto coordinado, coordinador: Juan A. Rosado), BFU2013-45564-C2-1-P: 266.200 € (proyecto coordinado, coordinador: Juan A. Rosado) y BFU2016-74932-C2-1-P: 278.300€ (proyecto coordinado, coordinador: Juan A. Rosado) y he participado en 5 proyectos nacionales más: PB94-1416-CO2-02, SAF2001-0295, BFI2001-0624, BFU2004-00165, BFI2004-00637. He sido **Investigador Principal de 7 Proyectos Conjuntos de Investigación del Ministerio de Asuntos Exteriores y Cooperación y de 4 Proyectos de Invest. de la Junta de Extremadura,** y he participado en otros 8 proyectos de la Junta de Extremadura y 4 de la UEx.

Pertenezco o he pertenecido al **panel de Editores** de las revistas BBA (2014-continúa), JBC (2010-2015), Cell Calcium (2017-continúa), J Biol Sci. (2012-2014), Dataset Papers in Medicine (2014-continúa). Soy **Associate Editor** de Frontiers in Pharmacology-Ion Channels and Channelopathies (2015-continúa) y **Editor Jefe** de la revista de la Soc. Española Ciencias Fisiológicas "Fisiología" (2009-continúa). He sido **editor de 4 libros** para las editoriales Springer (incluyendo un book series en Adv. Exp. Med. Biol.), CRC-Press y Research Signpost, y de 3 Special Issues para BBA-MCR, Curr. Med. Chem. y Curr. Vasc. Pharmacol. Miembro de Comisión Técnica BFU/BFI de la AEI, evaluador de proyectos de investigación nacionales (ANEP, SETH) e internacionales (Wellcome Trust, Medical Research Council y

British Heart Foundation (Reino Unido), European Science Foundation, Austrian Science Fund (FWF; Austria), Israel Science Foundation (Israel-USA) o TELETHON Fondazione ONLUS (Italia), así como de proyectos educativos internacionales (SEPIE).

He ocupado el cargo académico de Director del Secretariado de Relaciones Internacionales de la UEx (2011-2015), cargo asimilado a Decano que me permitió participar en las estrategias de internacionalización de la UEx. Actualmente soy Director del Departamento de Fisiología de la UEx (2016-cont).

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Sexenios de investigación: 3 (cuarto sexenio solicitado en 2018)
Tesis dirigidas (en los últimos 10 años): 7 (3 más en ejecución, prevista lectura 2019-2021).
Publicaciones: 2105 artículos; 154 comunicaciones a congresos; 26 capítulos en libros.
Nº total de citas: 5864.
Promedio de citas por artículo: 23.68 (8 artículos citados en más de 100 ocasiones)
Promedio de citas/año periodo 2014-2018: 386
Publicaciones en el primer decil: 30
Índice h: 44 (WOS).

Distinciones:
- 1er primer premio nacional de "Terminación de Estudios de Veterinaria" (1994).
- Premio "Luís de Cáceres" de Caja Extremadura otorgado al mejor expediente de Veterinaria.
- Premio "Banco Exterior de Crédito" al mejor expediente de licenciaturas de Ciencias de la Universidad de Extremadura (UEx).
- Diploma de Alumno Distinguido.
- Premio Extraordinario de Licenciatura.
- Premio Extraordinario de Doctorado.
- Dos distinciones a la "Excelencia Docente" 2009 y 2015 de la UEx.

JUAN ANTONIO ROSADO DIONISIO

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	orcid.or
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ResearcherID:	**H-**
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Country of birth:	**Spain**
Aut. region/reg. of birth:	**E**
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City of birth:	
Contact address:	**Departamento de Fisiología, Facultad de Veterinaria, Universidad de Extremadura**
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Mobile phone:	**(34) 649030088**

Current professional situation

Employing entity: UNIVERSIDAD DE EXTREMADURA **Type of entity:** University
Department: DEPARTAMENTO DE FISIOLOGÍA, FACULTAD DE VETERINARIA
Professional category: CATEDRÁTICO DE UNIVERSIDAD
Start date: 27/04/2017
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 241100 - Human physiology
Performed tasks: La dedicación actual se reparte entre las tareas docentes en el campo de la Fisiología, las tareas investigadoras en el estudio de los mecanismos que regulan la entrada de calcio y la homeostasis del calcio intracelular y las tareas de gestión como Director del Departamento y como Investigador Principal de un proyecto Coordinado del MINECO y otro de la Junta de Extremadura.
Identify key words: Biomedicine

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Extremadura	Profesor Titular de Universidad	26/06/2002

	Employing entity	Professional category	Start date
2	Universidad de Extremadura	DIRECTOR DEL SECRETARIADO DE RELACIONES INTERNACIONALES	01/03/2011
3	Universidad de Extremadura	PROFESOR ASOCIADO	23/01/2001
4	Universidad de Extremadura	BECARIO POSTDOCTORAL DE REINCORPORACION DE LA JUNTA DE EXTREMADURA	01/01/2001
5	UNIVERSIDAD DE CAMBRIDGE, REINO UNIDO	BECARIO POSTDOCTORAL	20/11/1998
6	Universidad de Extremadura	BECARIO FPI DE MEC	01/01/1995
7	Universidad de Extremadura	Director del Departamento de Fisiología	22/12/2016

1 **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Profesor Titular de Universidad
Start-End date: 26/06/2002 - 26/04/2017 **Duration:** 14 years - 10 months - 1 day

2 **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: DIRECTOR DEL SECRETARIADO DE RELACIONES INTERNACIONALES **Educational Management (Yes/No):** No
Start-End date: 01/03/2011 - 09/03/2015 **Duration:** 4 years - 9 days
Field of management activity: University

3 **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: PROFESOR ASOCIADO
Start-End date: 23/01/2001 - 25/06/2002 **Duration:** 1 year - 5 months - 3 days

4 **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: BECARIO POSTDOCTORAL DE REINCORPORACION DE LA JUNTA DE EXTREMADURA
Start-End date: 01/01/2001 - 22/01/2001 **Duration:** 22 days

5 **Employing entity:** UNIVERSIDAD DE CAMBRIDGE, REINO UNIDO **Type of entity:** University
Professional category: BECARIO POSTDOCTORAL
Start-End date: 20/11/1998 - 20/11/2000 **Duration:** 2 years

6 **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: BECARIO FPI DE MEC
Start-End date: 01/01/1995 - 19/11/1998 **Duration:** 3 years - 10 months - 19 days

7 **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Director del Departamento de Fisiología
Start date: 22/12/2016 **Duration:** 2 years

Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 **Name of qualification:** Máster universitario propio en formación y docencia universitaria en el EEES
City degree awarding entity: CACERES, Extremadura, Spain
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
Date of qualification: 23/12/2011

2 **University degree:** Higher degree
Name of qualification: Licenciado en Veterinaria Especialidad Medicina y Sanidad Animal
City degree awarding entity: CACERES, Extremadura, Spain
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
Date of qualification: 12/07/1994
Average mark: Outstanding
Prize: Primer Premio Nacional de Terminación de Estudios de Veterinaria (MEC), Alumno Distinguido (UEx), Premio Extraordinario de Licenciatura (UEx), Premio al mejor expediente de Veterinaria (UEx-Caja de Extremadura), Premio al mejor expediente de la promoción 1989/1994 (UEx-Banco Exterior de España)

Doctorates

Doctorate programme: Doctorado en Fisiología
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
City degree awarding entity: CACERES, Extremadura, Spain
Date of degree: 23/12/1997
DEA awarding entity: Universidad de Extremadura
Thesis title: IMPLICACIONES DE LA TIROSINA CINASA P125FAK EN PROCESOS DE SECRECION PANCREÁTICA
Thesis director: GINES MARIA SALIDO RUIZ
Thesis co-director: LUIS JESUS GARCIA MARIN
Obtained qualification: APTO CUM LAUDE
Recognition of quality: Yes
Special doctorate award: Yes **Date of award:** 20/01/1999

Other postgraduate university studies

Type of education: Masters
Postgraduate qualification: Tesina: Efectos de la histamina sobre el transporte de potasio en el páncreas de cobaya
City degree awarding entity: CACERES, Extremadura, Spain
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
Date of qualification: 29/09/1994
Obtained qualification: SOBRESALIENTE

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

1 **Type of training:** Course
Training title: Curso sobre manejo de animales de laboratorio
City awarding entity: Cambridge, United Kingdom
Awarding entity: Universidad de Cambridge, Reino Unido **Type of entity:** University
Aims of the entity: docente e investigadora
End date: 07/1998 **Duration in hours:** 20 hours

2 **Training title:** 4º Curso de Inglés de la Escuela Oficial de Idiomas
Awarding entity: Escuela Oficial de Idiomas de Cáceres **Type of entity:** Publico
End date: 30/06/1998 **Duration in hours:** 120 hours

3 **Training title:** 3º Curso de Inglés de la Escuela Oficial de Idiomas
Awarding entity: Escuela Oficial de Idiomas de Cáceres **Type of entity:** Publico
End date: 30/06/1997 **Duration in hours:** 120 hours

4 **Training title:** El toro de lidia
Awarding entity: Universidad de Extremadura **Type of entity:** University
End date: 20/11/1996 **Duration in hours:** 35 hours

5 **Training title:** II Jornadas intersectoriales y transfronterizas sobre el queso de la comarca de Casar de Cáceres
Awarding entity: Universidad de Extremadura, Colegio de Veterinarios-Ayuntamiento de Casar de Cáceres **Type of entity:** University
End date: 01/10/1996 **Duration in hours:** 4 hours

6 **Training title:** 2º Curso de Inglés de la Escuela Oficial de Idiomas
Awarding entity: Escuela Oficial de Idiomas de Cáceres **Type of entity:** Publico
End date: 30/06/1996 **Duration in hours:** 120 hours

7 **Training title:** II Curso de clínica de pequeños animales
Awarding entity: Universidad de Extremadura **Type of entity:** University
End date: 30/04/1996 **Duration in hours:** 20 hours

8 **Training title:** Curso de formación continuada para veterinarios
Awarding entity: Universidad de Extremadura **Type of entity:** University
End date: 30/03/1996 **Duration in hours:** 25 hours

9 **Training title:** 1º Curso de Inglés de la Escuela Oficial de Idiomas
Awarding entity: Escuela Oficial de Idiomas de Cáceres **Type of entity:** Publico
End date: 30/06/1995 **Duration in hours:** 120 hours

10 **Training title:** Certificado de Aptitud Pedagógica
Awarding entity: Universidad de Extremadura **Type of entity:** University
End date: 28/02/1995 **Duration in hours:** 300 hours

11 **Training title:** II Curso de gestión cinegética de la caza mayor
Awarding entity: Universidad de Extremadura **Type of entity:** University
End date: 15/12/1994 **Duration in hours:** 40 hours

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

1 **Title of course/seminar:** La responsabilidad social universitaria como filosofía de gestión
Goals of the course/seminar: orientación sobre la responsabilidad social universitaria
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 01/05/2014 - 10/05/2014

2 **Title of course/seminar:** Evaluación de la calidad de las propuestas de la Acción Clave KA1 – Movilidad de personas para el aprendizaje. Programa Erasmus+ 2014-2020
Goals of the course/seminar: Formación para la evaluación de proyectos
City organizing entity: Madrid, Community of Madrid, Spain
Organising entity: Organismo Autónomo de Programas Educativos Europeos (MEC) **Type of entity:** Organismo dependiente del MEC
Duration in hours: 70 hours
Start-End date: 27/02/2014 - 17/03/2014

3 **Title of course/seminar:** Jornadas de difusión sobre recursos de la UE para la universidad: convocatorias y proyectos europeos
Goals of the course/seminar: curso sobre nuevos recursos para la universidad
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 4 hours
Start-End date: 19/12/2013 - 19/12/2013

4 **Title of course/seminar:** Jornada de Autoprotección en Edificio de Usos Múltiples
Goals of the course/seminar: orientación sobre los sistemas de seguridad en el trabajo y nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Servicios Centrales

Duration in hours: 2 hours
Start-End date: 05/12/2013 - 05/12/2013

5 **Title of course/seminar:** Análisis estadístico avanzado con SPSS
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2010 - 2011

6 **Title of course/seminar:** El televoto como metodología para aumentar la participación del alumno y evaluar las competencias específicas y transversales online
Goals of the course/seminar: curso sobre innovación docente
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 2010 - 2011

7 **Title of course/seminar:** Estrategias metodológicas en la enseñanza universitaria: aprendizaje cooperativo y colaborativo
Goals of the course/seminar: curso sobre innovación docente
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 16 hours
Start-End date: 2010 - 2011

8 **Title of course/seminar:** Habilidades docentes para el manejo de situaciones conflictivas con alumnos universitarios
Goals of the course/seminar: curso sobre innovación docente
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 50 hours
Start-End date: 2010 - 2011

9 **Title of course/seminar:** Introducción al análisis estadístico aplicado con SPSS
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2010 - 2011

10 **Title of course/seminar:** Recursos y estrategias en la búsqueda de información para la docencia universitaria
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado

Duration in hours: 24 hours
Start-End date: 2010 - 2011

11 **Title of course/seminar:** Diseño web para la docencia universitaria (básico)
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2009 - 2010

12 **Title of course/seminar:** Elaboración y edición de textos académicos con el procesador de documentos Lyx (Latex)
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2009 - 2010

13 **Title of course/seminar:** Evaluación formativa con E-portafolios y E-rúbrica
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 2009 - 2010

14 **Title of course/seminar:** Introducción a la inferencia estadística
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 28 hours
Start-End date: 2009 - 2010

15 **Title of course/seminar:** Investigación sobre la docencia universitaria en inglés en el Espacio Europeo de Educación Superior
Goals of the course/seminar: Grupo de innovacion didáctica
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
Duration in hours: 60 hours
Start-End date: 2009 - 2010

16 **Title of course/seminar:** Orientaciones sobre indicadores bibliométricos útiles para la evaluación de las publicaciones de investigación
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado

Duration in hours: 4 hours
Start-End date: 2009 - 2010

17 **Title of course/seminar:** Presentaciones multimedia para la docencia universitaria con OpenOffice.org Impress
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2009 - 2010

18 **Title of course/seminar:** Recursos informáticos para la gestión docente: la tutoría virtual
Goals of the course/seminar: Curso sobre innovación docente
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2009 - 2010

19 **Title of course/seminar:** Curso de apoyo a la enseñanza de materias optativas en inglés en la UEX
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 2008 - 2009

20 **Title of course/seminar:** Diseño del plan docente en el Espacio Europeo de Educación Superior
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2008 - 2009

21 **Title of course/seminar:** Diseño y Elaboración de un Curso Virtual con Moodle
Goals of the course/seminar: Curso sobre innovación docente
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 34 hours
Start-End date: 2008 - 2009

22 **Title of course/seminar:** El uso de inglés académico en ponencias y clases universitarias (nivel avanzado)
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 2008 - 2009

23 **Title of course/seminar:** Elaboración de Textos Académicos y Ceintíficos con OpenOffice.org Writer
Goals of the course/seminar: Curso sobre nuevas tecnologías
City organizing entity: CACERES, Extremadura, Spain

Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2008 - 2009

24 **Title of course/seminar:** Sistemas de garantía de calidad en las universidades
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 30 hours
Start-End date: 2008 - 2009

25 **Title of course/seminar:** Educación científica y formación del profesorado
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 4 hours
Start-End date: 17/01/2008 - 17/01/2008

26 **Title of course/seminar:** Introducción al estudio de casos como método de enseñanza
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 8 hours
Start-End date: 2007 - 2008

27 **Title of course/seminar:** Preparación del profesorado en nuevas metodologías didácticas para el Espacio Europeo de Educación Superior
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 50 hours
Start-End date: 2007 - 2008

28 **Title of course/seminar:** Formación de Profesores-Tutores en el Espacio Europeo de Educación Superior I
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 50 hours
Start-End date: 2006 - 2007

29 **Title of course/seminar:** Introducción a la plataforma de aprendizaje virtual de la UEX (Moodle y Media Wiki)
Goals of the course/seminar: Curso sobre nuevas tecnologías
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 03/2006 - 03/2006

30 **Title of course/seminar:** Introducción al SPSS
Goals of the course/seminar: Curso sobre nuevas tecnologías
Organising entity: Universidad de Extremadura **Type of entity:** University

Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 05/2001 - 05/2001

31 **Title of course/seminar:** El Proyecto Docente
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 10 hours
Start-End date: 03/2001 - 03/2001

32 **Title of course/seminar:** Herramientas para la confección de sitios y páginas WEB
Goals of the course/seminar: Curso sobre nuevas tecnologías
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 03/2001 - 03/2001

33 **Title of course/seminar:** Preparación y desarrollo de presentaciones con ordenador
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 10 hours
Start-End date: 03/2001 - 03/2001

34 **Title of course/seminar:** La tutoría universitaria
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 8 hours
Start-End date: 02/2000 - 02/2000

35 **Title of course/seminar:** Photoshop (Image/Photo Editing Software): Demonstration
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: Cambridge, United Kingdom
Organising entity: Universidad de Cambridge **Type of entity:** University
Faculty, institute or centre: Computer Service
Duration in hours: 4 hours
Start-End date: 06/1999 - 06/1999 **Length:** 1 day

36 **Title of course/seminar:** UNIX system: further use
Goals of the course/seminar: curso sobre nuevas tecnologías
City organizing entity: Cambridge, United Kingdom
Organising entity: Universidad de Cambridge **Type of entity:** University
Faculty, institute or centre: Computer Service
Duration in hours: 4 hours
Start-End date: 06/1999 - 06/1999 **Length:** 1 day

37 **Title of course/seminar:** Curso sobre estrategias metodológicas en el aula universitaria
Goals of the course/seminar: Curso sobre innovación docente
Organising entity: Universidad de Extremadura **Type of entity:** University

Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 12 hours
Start-End date: 03/1998 - 03/1998

38 **Title of course/seminar:** Informática básica para docentes universitarios
Goals of the course/seminar: Curso sobre nuevas tecnologías
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 20 hours
Start-End date: 04/1997 - 04/1997

39 **Title of course/seminar:** Curso teórico - práctico sobre internet
Goals of the course/seminar: Curso sobre nuevas tecnologías
Organising entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Formación del Profesorado
Duration in hours: 15 hours
Start-End date: 02/1997 - 02/1997

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French		A2	A1	A1	A2
English		B2	B2	B2	B2

Teaching experience

General teaching experience

1 **Name of the course:** Endocrinología Molecular
University degree: Grado en Bioquímica
Start date: 2015 **End date:** 2019
End date: 2019
Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria

2 **Type of teaching:** Official teaching
Name of the course: Endocrinología y Regulación Metabólica
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES ENDOCRINOLÓGICAS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Grado **Type of teaching:** In person theory
Type of subject: Core
University degree: Grado en Veterinaria
Course given: 1 **Frequency of the activity:** 1
Start date: 2009 **End date:** 2019
End date: 2019 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 80
Entity: Universidad de Extremadura **Type of entity:** University

Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

3 **Type of teaching:** Official teaching
Name of the course: Fisiología Animal
Related skills: CAPACIDAD PARA IDENTIFICAR LOS PROCESOS FISIOLOGICOS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Grado
Type of teaching: In person theory
Type of subject: Core
University degree: Grado en Veterinaria
Course given: 2
Frequency of the activity: 1
Start date: 2012
End date: 31/01/2016
End date: 2016
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 80
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

4 **Type of teaching:** Official teaching
Name of the course: FISIOLOGÍA HUMANA BASICA
Related skills: CAPACIDAD PARA DISCRIMINAR LAS BASES FISIOPATOLOGICAS DE LOS DESORDENES FUNCIONALES
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: GRADO
Type of teaching: In person theory
Type of subject: Core
University degree: Grado en enfermería
Course given: 1
Frequency of the activity: 2
Start date: 2010
End date: 2016
End date: 2016
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

5 **Type of teaching:** Official teaching
Name of the course: FISIOLOGIA HUMANA
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Grado
Type of teaching: In person theory
Type of subject: Core
University degree: Grado en Ciencias de la Actividad Física y el Deporte
Course given: 2
Frequency of the activity: 1
Start date: 2010
End date: 2016
End date: 2016
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 90

Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias del Deporte
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

6 **Type of teaching:** Official teaching
Name of the course: Introducción a la Investigación en Inmunologia y Fisiología Celular
Related skills: CAPACIDAD PARA DISEÑAR PROTOCOLOS EXPERIMENTALES QUE ESTUDIEN LAS BASES FISIOLÓGICAS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Master Universitario de Investigación en Ciencias de la Salud especialidad en Veterinaria
Course given: 1 **Frequency of the activity:** 2
Start date: 2010 **End date:** 2014
End date: 2014 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 10
Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

7 **Type of teaching:** Official teaching
Name of the course: Fisiología Celular
Related skills: CAPACIDAD PARA DISEÑAR PROTOCOLOS EXPERIMENTALES QUE ESTUDIEN LAS BASES FISIOLÓGICAS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Doctorate **Type of teaching:** In person theory
Type of subject: Obligatory
University degree: Programa de Doctorado de Fisiologia
Course given: 1 **Frequency of the activity:** 11
Start date: 2001 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 120
Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

8 **Type of teaching:** Official teaching
Name of the course: FUNDAMENTOS DE FISIOLOGÍA
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Bachelor's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Licenciatura en Bioquímica
Course given: 1 **Frequency of the activity:** 3
Start date: 2001 **End date:** 2012

End date: 2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 45
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

9 **Type of teaching:** Official teaching
Name of the course: Fisiología Aviar
Related skills: CAPACIDAD PARA IDENTIFICAR LOS PROCESOS FISIOLOGICOS EN AVES
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Bachelor's degree
Type of teaching: In person theory
Type of subject: Optional
University degree: Licenciatura en Veterinaria
Course given: 3
Frequency of the activity: 4
Start date: 2004
End date: 2010
End date: 2010
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

10 **Type of teaching:** Official teaching
Name of the course: BASES DE ANATOMIA Y FISIOLOGIA EN LA ACTIVIDAD FISICA Y EL DEPORTE
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Bachelor's degree
Type of teaching: In person theory
Type of subject: Core
University degree: Licenciatura en Ciencias de la Actividad Física y el Deporte
Course given: 2
Frequency of the activity: 5
Start date: 2003
End date: 2010
End date: 2010
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 120
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Facultad de Ciencias del Deporte
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

11 **Type of teaching:** Official teaching
Name of the course: Señalización Celular
Related skills: CAPACIDAD PARA DISEÑAR PROTOCOLOS EXPERIMENTALES QUE ESTUDIEN LAS BASES FISIOLÓGICAS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Doctorate
Type of teaching: In person theory
Type of subject: Core
University degree: Programa de Doctorado de Fisiologia
Course given: 1
Frequency of the activity: 9

Start date: 2001
End date: 2010
Hours/ECTS credits: 70
Entity: Universidad de Extremadura
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

End date: 2010
Type of hours/ ECTS credits: Hours
Type of entity: University

12 **Type of teaching:** Official teaching
Name of the course: Fisiología Animal
Related skills: CAPACIDAD PARA IDENTIFICAR LOS PROCESOS FISIOLOGICOS
Type of programme: Bachelor's degree
Type of subject: Core
University degree: Licenciatura en Veterinaria
Course given: 2
Start date: 1997
End date: 2009
Hours/ECTS credits: 60
Entity: Universidad de Extremadura
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of teaching: In person theory
Frequency of the activity: 10
End date: 2009
Type of hours/ ECTS credits: Hours
Type of entity: University

13 **Type of teaching:** Official teaching
Name of the course: Movilización de calcio intracelular en plaquetas y células no excitables
Related skills: CAPACIDAD PARA DISEÑAR PROTOCOLOS EXPERIMENTALES QUE ESTUDIEN LAS BASES FISIOLÓGICAS
Type of programme: Doctorate
Type of subject: Core
University degree: Programa de Doctorado Universidad de Cadiz
Course given: 1
Start date: 2006
End date: 2006
Hours/ECTS credits: 4
Entity: Universidad de Cádiz
Faculty, institute or centre: Facultad de Medicina
Department: FISIOLOGIA
City of entity: Cadiz, Andalusia, Spain
Subject language: Spanish

Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of teaching: In person theory
Frequency of the activity: 1
End date: 2006
Type of hours/ ECTS credits: Hours
Type of entity: University

14 **Type of teaching:** Official teaching
Name of the course: FISIOLOGÍA
Related skills: CAPACIDAD PARA DISCRIMINAR LAS BASES FISIOPATOLOGICAS DE LOS DESORDENES FUNCIONALES
Type of programme: Diploma
Type of subject: Optional

Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of teaching: In person theory

University degree: Diplomado en enfermería
Course given: 3
Frequency of the activity: 4
Start date: 2002
End date: 2006
End date: 2006
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

15 **Type of teaching:** Official teaching
Name of the course: Movilización de calcio intracelular en plaquetas humanas: entrada de calcio
Related skills: CAPACIDAD PARA DISEÑAR PROTOCOLOS EXPERIMENTALES QUE ESTUDIEN LAS BASES FISIOLÓGICAS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Doctorate
Type of teaching: In person theory
Type of subject: Core
University degree: Programa de Doctorado Universidad de Murcia
Course given: 1
Frequency of the activity: 1
Start date: 2005
End date: 2005
End date: 2005
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Universidad de Murcia
Type of entity: University
Faculty, institute or centre: Facultad de Medicina
Department: FISIOLOGIA
City of entity: MURCIA, Region of Murcia, Spain
Subject language: Spanish

16 **Type of teaching:** Official teaching
Name of the course: FISIOLOGÍA
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Diploma
Type of teaching: In person theory
Type of subject: Core
University degree: Diplomado en Terapia Ocupacional
Course given: 1
Frequency of the activity: 1
Start date: 2004
End date: 2005
End date: 2005
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 150
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

17 **Type of teaching:** Official teaching
Name of the course: FISIOLOGÍA
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS
Professional category: PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Diploma
Type of teaching: In person theory

Type of subject: Core
University degree: Diplomado en Terapia Ocupacional
Course given: 1 **Frequency of the activity:** 1
Start date: 2004 **End date:** 2005
End date: 2005 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 75
Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

18 **Type of teaching:** Official teaching
Name of the course: ESTRUCTURA Y FUNCION DEL CUERPO HUMANO
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Diploma **Type of teaching:** In person theory
Type of subject: Core
University degree: Diplomado en enfermería
Course given: 1 **Frequency of the activity:** 1
Start date: 2003 **End date:** 2004
End date: 2004 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 75
Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

19 **Type of teaching:** Official teaching
Name of the course: FISIOLOGÍA
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES FISIOLOGICAS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD
Type of programme: Diploma **Type of teaching:** In person theory
Type of subject: Core
University degree: Diplomado en enfermería
Course given: 1 **Frequency of the activity:** 2
Start date: 1997 **End date:** 2004
End date: 2004 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 75
Entity: Universidad de Extremadura **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

20 **Type of teaching:** Official teaching
Name of the course: Endocrinología Molecular
Related skills: CAPACIDAD PARA IDENTIFICAR LAS BASES MOLECULARES DE LOS PROCESOS **Professional category:** PROFESOR TITULAR DE UNIVERSIDAD

ENDOCRINOS Y LA SEÑALIZACIÓN INTER E INTRACELULAR
Type of programme: Bachelor's degree
Type of teaching: In person theory
Type of subject: Obligatory
University degree: Licenciatura en Bioquímica
Course given: 2
Frequency of the activity: 2
Start date: 2001
End date: 2003
End date: 2003
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 60
Entity: Universidad de Extremadura
Type of entity: University
Faculty, institute or centre: Facultad de Veterinaria
Department: FISIOLOGIA
City of entity: CACERES, Extremadura, Spain
Subject language: Spanish

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Papel de los canales TRPC6 y TRPA1 en la homeostasis del Ca2+ intracelular
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; Jose J López Barba
Entity: Universidad de Extremadura
Type of entity: University
City of entity: CACERES, Extremadura, Spain
Student: Letizia Albarrán Alonso
Obtained qualification: APTO CUM LAUDE POR UNANIMIDAD
Date of reading: 15/01/2016
European doctorate: Yes
Date of recognition: 15/01/2016
Quality recognition: Yes
Date of award: 15/01/2016

2 **Project title:** El papel del calcio en la función plaquetaria
Type of project: End of course project
Co-director of thesis: Juan Antonio Rosado Dionisio
Entity: Universidad de Extremadura
Type of entity: University
Student: Juan Manuel Romero Carmona
Obtained qualification: Notable 7.5
Date of reading: 01/07/2015

3 **Project title:** Regulación de la entrada de calcio a través de la proteína SARAF
Type of project: End of course project
Co-director of thesis: Juan Antonio Rosado Dionisio
Entity: Universidad de Extremadura
Type of entity: University
Student: Tomás Serrano Crehuet
Obtained qualification: Notable 7.5
Date of reading: 01/07/2015

4 **Project title:** Papel de las inmunofilinas en la homeostasis del ion calcio en plaquetas humanas
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; PEDRO COSME REDONDO LIBERAL
Entity: Universidad de Extremadura
Type of entity: University
City of entity: CACERES, Extremadura, Spain
Student: ESTHER LOPEZ NIETO

Obtained qualification: APTO CUM LAUDE POR UNANIMIDAD
Date of reading: 13/01/2015
European doctorate: Yes
Date of recognition: 13/01/2015
Quality recognition: Yes
Date of award: 13/01/2015

5 **Project title:** Papel de Orai, STIM y TRPC en la entrada de calcio
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; Gines M Salido Ruiz
Entity: Universidad de Extremadura
Type of entity: University
City of entity: CACERES, Extremadura, Spain
Student: Natalia Alba Dionisio Flores
Obtained qualification: APTO CUM LAUDE POR UNANIMIDAD
Date of reading: 27/03/2014
European doctorate: Yes
Date of recognition: 27/03/2014
Quality recognition: Yes
Date of award: 27/03/2014

6 **Project title:** Efecto de los antioxidantes derivados del ácido ascórbico en la homeostasis del calcio y fisiología plaquetaria
Type of project: End of course project
Co-director of thesis: Juan Antonio Rosado Dionisio; Pedro Cosme Redondo Liberal
Entity: Universidad de Extremadura
Type of entity: University
Student: Alba Camacho Cardeñosa
Date of reading: 11/07/2013

7 **Project title:** Papel de la proteína EFHB en la homeostasis del calcio
Type of project: End of course project
Co-director of thesis: Juan Antonio Rosado Dionisio; Alejandro Berna Erro
Entity: Universidad de Extremadura
Type of entity: University
Student: Marta Camacho Cardeñosa
Date of reading: 11/07/2013

8 **Project title:** Papel del calcio en la secreción de los gránulos alfa y densos en plaquetas humanas
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; Alejandro Berna Erro; PEDRO COSME REDONDO LIBERAL
Entity: Universidad de Extremadura
Type of entity: University
City of entity: CACERES, Extremadura, Spain
Student: NURIA BERMEJO VEGA
Obtained qualification: APTO CUM LAUDE POR UNANIMIDAD
Date of reading: 01/02/2013
European doctorate: No
Quality recognition: Yes
Date of award: 01/02/2013

9 **Project title:** Las proteínas STIM1, Orai1 y TRPC y la agregación plaquetaria en diabetes mellitus tipo 2
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; GINES MARIA SALIDO RUIZ
Entity: Universidad de Extremadura
Type of entity: University
City of entity: CACERES, Extremadura, Spain
Student: HANENE ZBIDI
Obtained qualification: APTO CUM LAUDE
Date of reading: 09/12/2011

10 **Project title:** Complejos STIM1-Orai1-TRPC en la entrada de Ca2+ en plaquetas humanas
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; GINES MARIA SALIDO RUIZ
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: ISAAC JARDIN POLO
Obtained qualification: APTO CUM LAUDE POR UNANIMIDAD
Date of reading: 30/11/2011
European doctorate: Yes **Date of recognition:** 30/11/2011
Quality recognition: Yes **Date of award:** 30/11/2011

11 **Project title:** Estudio de los depósitos acídicos de calcio en la línea celular megacarioblástica MEG01
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; GINES MARIA SALIDO RUIZ
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: LETIZIA ALBARRAN ALONSO
Obtained qualification: SOBRESALIENTE
Date of reading: 04/11/2011

12 **Project title:** Estudio de los depósitos acídicos de Ca2+ en la línea celular megacarioblástica MEG01
Type of project: TRABAJO FIN DE MASTER
Co-director of thesis: Juan Antonio Rosado Dionisio
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: LETIZIA ALBARRAN ALONSO
Obtained qualification: SOBRESALIENTE
Date of reading: 15/06/2011

13 **Project title:** Análisis de la fosforilación de STIM durante la activación de la entrada capacitativa de calcio en plaquetas humanas
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; PEDRO COSME REDONDO LIBERAL
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: ESTHER LOPEZ NIETO
Obtained qualification: SOBRESALIENTE
Date of reading: 11/04/2011

14 **Project title:** Estudio de los canales de membrana que participan en la entrada de calcio
Type of project: TRABAJO FIN DE MASTER
Co-director of thesis: Juan Antonio Rosado Dionisio
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: NATALIA ALBA DIONISIO FLORES
Obtained qualification: MATRICULA DE HONOR
Date of reading: 15/06/2010

15 **Project title:** Implicaciones del Ca2+ en las alteraciones fisiopatológicas ocasionadas por las proteínas NS5A y Core del virus de la hepatitis C en hepatocitos
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; GINES MARIA SALIDO RUIZ
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: NATALIA ALBA DIONISIO FLORES
Obtained qualification: SOBRESALIENTE
Date of reading: 08/01/2010
Quality recognition: Yes **Date of award:** 08/01/2010

16 **Project title:** Relación entre la señal de calcio, especies reactivas de oxígeno y apoptosis en plaquetas humanas
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; JOSE ANTONIO PARIENTE LLANOS
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: JOSE JAVIER LOPEZ BARBA
Obtained qualification: APTO CUM LAUDE POR UNANIMIDAD
Date of reading: 12/02/2009
European doctorate: Yes **Date of recognition:** 12/02/2009
Quality recognition: Yes **Date of award:** 12/02/2009

17 **Project title:** Organisation structurale des protéines cytosquelettiques et relation avec le Diabète Type II
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; AGHLEB BARTEGI
Entity: UNIVERSIDAD DE MONASTIR **Type of entity:** University
City of entity: MONASTIR, Tunisia
Student: AICHA BOUAZIZ
Obtained qualification: Very honourable and a special mention of the Jury
Date of reading: 18/07/2007
Quality recognition: Yes **Date of award:** 18/07/2007

18 **Project title:** Etudes des mécanismes d´entrée du calcium dans les plaquettes humaines activation des caspases et rôle du cytosquelette d´actine
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; AGHLEB BARTEGI
Entity: UNIVERSIDAD DE MONASTIR **Type of entity:** University
City of entity: MONASTIR, Tunisia
Student: BEN AMOR NIDHAL
Obtained qualification: Very honourable and a special mention of the Jury
Date of reading: 18/07/2006
Quality recognition: Yes **Date of award:** 18/07/2006

19 **Project title:** Papel de las especies reactivas de oxígeno en la homeostasis del ion calcio en plaquetas de pacientes humanos afectados de diabetes mellitus tipo 2
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; PEDRO COSME REDONDO LIBERAL
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: BADAJOZ, Extremadura, Spain
Student: ISAAC JARDIN POLO
Obtained qualification: SOBRESALIENTE

Date of reading: 14/09/2005

20 **Project title:** Estudio de la entrada capacitativa de calcio (ECC) en plaquetas humanas. Papel de las especies reactivas de oxígeno
Type of project: Doctoral thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; JOSE ANTONIO PARIENTE LLANOS
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: PEDRO COSME REDONDO LIBERAL
Obtained qualification: APTO CUM LAUDE
Identify key words: Growth (physiology)
Date of reading: 21/01/2005
European doctorate: Yes **Date of recognition:** 21/01/2005

21 **Project title:** Identificación de dos rutas para el entrada capacitativa de calcio en plaquetas
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; JOSE ANTONIO PARIENTE LLANOS
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: JOSE JAVIER LOPEZ BARBA
Obtained qualification: SOBRESALIENTE
Date of reading: 14/06/2004

22 **Project title:** Alteraciones en el metabolismo del calcio citosólico en pacientes con diabetes tipo II
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; JOSE ANTONIO PARIENTE LLANOS
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Student: FERNANDO RAUL SAAVEDRA BURDALLO
Obtained qualification: SOBRESALIENTE
Date of reading: 04/05/2004

23 **Project title:** Implicaciones del citoesqueleto en la entrada capacitativa de calcio en acinos pancreáticos de ratón
Type of project: Minor thesis
Co-director of thesis: Juan Antonio Rosado Dionisio; JOSE ANTONIO PARIENTE LLANOS
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: BADAJOZ, Extremadura, Spain
Student: PEDRO COSME REDONDO LIBERAL
Obtained qualification: SOBRESALIENTE
Date of reading: 14/10/2002

24 **Project title:** Efecto del tratamiento con 2-APB en la entrada de calcio
Type of project: End of course project
Co-director of thesis: Juan Antonio Rosado Dionisio; STEWART ONAN SAGE
Entity: UNIVERSIDAD DE CAMBRIDGE **Type of entity:** University
City of entity: CAMBRIDGE, United Kingdom
Student: JAMES DIVER
Obtained qualification: FIRST CLASS (SOBRESALIENTE)
Date of reading: 15/06/2001

25 **Project title:** Fosforilación en residuos de tirosina, el citoesqueleto de actina y la entrada de calcio en plaquetas humanas
Type of project: End of course project
Co-director of thesis: Juan Antonio Rosado Dionisio; STEWART ONAN SAGE
Entity: UNIVERSIDAD DE CAMBRIDGE **Type of entity:** University
City of entity: CAMBRIDGE, United Kingdom
Student: DARREN GRAVES
Obtained qualification: FIRST CLASS (SOBRESALIENTE)
Date of reading: 15/06/2000

Teaching experience in courses and seminars for university teacher training

1 **Type of event:** Workshop
Name of the event: Evaluación del estudiante en el aula mediante Quickquiz
Organising entity: Universidad de Extremadura-SOFD
Hours of teaching: 4
Teaching date: 11/04/2018

2 **Type of event:** TALLER
Name of the event: Tutor del taller de Formación Inicial de Profesores Noveles para la Docencia Universitaria
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Aims of the course: TUTORIA DE LETIZIA ALBARRÁN ALONSO
Target group profile: PROFESOR NOVEL
Hours of teaching: 15 **Teaching language:** Spanish
Teaching date: 2014
Type of participation: TUTORIA

3 **Type of event:** TALLER
Name of the event: Tutor del taller de Formación Inicial de Profesores Noveles para la Docencia Universitaria
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Aims of the course: TUTORIA DE ALEJANDRO RAFAEL BERNA ERRO
Target group profile: PROFESOR NOVEL
Hours of teaching: 15 **Teaching language:** Spanish
Teaching date: 2013
Type of participation: TUTORIA

4 **Type of event:** TALLER
Name of the event: Tutor del taller de Formación Inicial de Profesores Noveles para la Docencia Universitaria
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Aims of the course: TUTORIA DE NATALIA ALBA DIONISIO FLORES
Target group profile: PROFESOR NOVEL
Hours of teaching: 15 **Teaching language:** Spanish
Teaching date: 2011
Type of participation: TUTORIA

5 **Type of event:** Curso
Name of the event: PROFESOR-PONENTE en los Cursos para la obtención del Certificado de Aptitud Pedagógica (CAP) en la Facultad de Veterinaria de la UEX
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Aims of the course: CURSO ORIENTADO A LOS ESTUDIANTES DEL CERTIFICADO DE APTITUD PEDAGOGICA (CAP)
Target group profile: ESTUDIANTES DEL CURSO PARA EL CERTIFICADO DE APTITUD PEDAGÓGICA
Hours of teaching: 3 **Teaching language:** Spanish
Teaching date: 2009
Type of participation: Participatory - oral communication

6 **Type of event:** TALLER
Name of the event: Tutor del taller de Formación Inicial de Profesores Noveles para la Docencia Universitaria
City organizing entity: CACERES, Extremadura, Spain
Organising entity: Universidad de Extremadura **Type of entity:** University
Aims of the course: TUTORIA DE PEDRO COSME REDONDO LIBERAL
Target group profile: PROFESOR NOVEL
Hours of teaching: 15 **Teaching language:** Spanish
Teaching date: 2009
Type of participation: TUTORIA

Educational or pedagogical publications, books, articles, etc.

1 JUAN ANTONIO ROSADO DIONISIO; ALEJANDRO BERNA ERRO; NATALIA DIONISIO FLORES; LUIS GOMEZ GORDO; JOSE JAVIER LOPEZ BARBA; PEDRO COSME REDONDO LIBERAL; GINES MARIA SALIDO RUIZ; Alejandro Rafael Berna Erro; Jose Javier Lopez Barba; Pedro Cosme Redondo Liberal; Gines Maria Salido Ruiz; Juan Antonio Rosado Dionisio. Physiology: a practical textbook. PHYSIOLOGY: A PRACTICAL TEXTBOOK. Extremadura (Spain): SERVICIO DE PUBLICACIONES DE LA UNIVERSIDAD DE EXTREMADURA, 2013.
Name of the materials: Libro docente
Target group profile: Estudiantes y profesionales de Fisiología
Date of drafting: 2013
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Justification of material: Libro de prácticas en inglés para la docencia de la Fisiología

2 Alejandro Rafael Berna Erro; Jose Javier Lopez Barba; Pedro Cosme Redondo Liberal; Gines Maria Salido Ruiz; Juan Antonio Rosado Dionisio. La creciente presencia del calcio intracelular en los estudios sobre el cáncer. Fisiología. 15 - 1, pp. 14 - 21. Galicia (Spain): Sociedad Española de Ciencias Fisiológicas, 2012. Available on-line at: <http://www.secf.es/index.php/es/publicaciones/revistafisiologia>. ISSN 1889-397X
Legal deposit: SE-321-2000
Name of the materials: Articulo docente
Target group profile: Estudiantes y profesionales de Fisiología
Date of drafting: 2012
Format: Article(s)
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Justification of material: Elaboración de material docente para estudiantes y profesores de Fisiología

3 Juan Antonio Rosado Dionisio. Material docente online.
Name of the materials: Material docente en el Campus Virtual a disposición de los alumnos 2010-2016
Date of drafting: 2010
Format: Notes

4 Juan Antonio Rosado Dionisio. Bleeding disorders. Textbook of Hemostasis and Blood Coagulation. pp. 61 - 80. (India): Research Signpost, 2009. Available on-line at: <http://www.ressign.com/UserBookDetail.aspx?bkid=909&catid=196>. ISBN 978-81-308-0345-6
Name of the materials: Textbook of Hemostasis and Blood Coagulation
Target group profile: Estudiantes y profesionales de la salud
Date of drafting: 2009
Format: Chapters of books
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book
Justification of material: Elaboración de material en inglés para la docencia y actualización sobre los procesos hemostáticos.

5 Juan Antonio Rosado Dionisio. General aspects of hemostasis. Textbook of Hemostasis and Blood Coagulation. pp. 1 - 20. (India): Research Signpost, 2009. Available on-line at: <http://www.ressign.com/UserBookDetail.aspx?bkid=909&catid=196>. ISBN 978-81-308-0345-6
Name of the materials: Textbook of Hemostasis and Blood Coagulation
Target group profile: Estudiantes y profesionales de la salud
Date of drafting: 2009
Format: Chapters of books
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book
Justification of material: Elaboración de material en inglés para la docencia y actualización sobre los procesos hemostáticos.

6 Pedro Cosme Redondo Liberal; Juan Antonio Rosado Dionisio. Thromboembolic disorders. Textbook of Hemostasis and Blood Coagulation. pp. 81 - 98. (India): Research Signpost, 2009. Available on-line at: <http://www.ressign.com/UserBookDetail.aspx?bkid=909&catid=196>. ISBN 978-81-308-0345-6
Name of the materials: Textbook of Hemostasis and Blood Coagulation
Target group profile: Estudiantes y profesionales de la salud
Date of drafting: 2009
Format: Chapters of books
Position of signature: 2
Degree of contribution: Author or co-author of chapter in book
Justification of material: Elaboración de material en inglés para la docencia y actualización sobre los procesos hemostáticos.

7 Juan Antonio Rosado Dionisio; Antonio Gonzalez Mateos; Gines Maria Salido Ruiz; Jose Antonio Pariente Llanos. Homeostasis del ión calcio en células no excitables. Papel de las especies reactivas de oxígeno. Fisiología. 8, pp. 15 - 18. Castile and León (Spain): Sociedad Española de Ciencias Fisiológicas, 2006. Available on-line at: <http://www.secf.es/index.php/es/publicaciones/revistafisiologia>. ISSN 1889-397X
Legal deposit: SE-321-2000
Name of the materials: Articulo docente
Target group profile: Estudiantes y profesionales de Fisiología
Date of drafting: 2006
Format: Article(s)
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Justification of material: Elaboración de material docente para estudiantes y profesores de Fisiología

Participation in innovative teaching projects

1 **Project title:** INTEGRACIÓN Y MEJORA DE UNA APLICACIÓN WEB PARA LA EVALUACIÓN DEL APROVECHAMIENTO DEL ALUMNADO EN EL AULA Y ANÁLISIS DE LA RELEVANCIA DE DICHA EVALUACIÓN EN LA TASA DE ÉXITO DEL ALUMNADO
Type of participation: Principal investigator
Time of working relationship: For a limited time
Funding entity: Universidad de Extremadura
Start-End date: 01/09/2017 - 31/08/2018 **Duration:** 1 year

2 **Project title:** Desarrollo y mejora de una aplicación web para la evaluación del aprovechamiento del alumnado en el aula y análisis de la relevancia de dicha evaluación en las tasas de rendimiento y éxito del alumno
City of entity: CACERES, Extremadura, Spain
Type of participation: Principal investigator
Contribution to the project: Desarrollo de una aplicación para web y dispositivos móviles para la autoevaluación de alumno
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 14
Amount awarded: 500 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/09/2016 - 01/09/2017 **Duration:** 1 year

3 **Project title:** Diseño y elaboración de una aplicación web para la autoevaluación del alumnado en el aula y análisis del efecto de la evaluación en el aula sobre las tasas de éxito y rendimiento académico
City of entity: CACERES, Extremadura, Spain
Type of participation: Principal investigator
Contribution to the project: Desarrollo de una aplicación para web y dispositivos móviles para la autoevaluación de alumno
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 14
Amount awarded: 200 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/09/2015 - 01/09/2016 **Duration:** 1 year

4 **Project title:** Utilización de videoblogs, plataformas de aprendizaje MOOC, y otras herramientas visuales y virtuales para la formación extracurricular de nuestros alumnos
City of entity: CACERES, Extremadura, Spain
Type of participation: Others
Contribution to the project: Elaboración de un libro para la docencia práctica de la Fisiología en inglés titulado "Physiology: a practical textbook"
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 8
Amount awarded: 1.000 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/10/2013 - 30/09/2014 **Duration:** 10 months

5 **Project title:** Elaboración de material de prácticas de Fisiología en inglés
City of entity: CACERES, Extremadura, Spain
Type of participation: Co-ordinator
Contribution to the project: Elaboración de un libro para la docencia práctica de la Fisiología en inglés titulado "Physiology: a practical textbook"
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 8
Amount awarded: 1.000 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 22/11/2012 - 30/09/2013 **Duration:** 10 months

6 **Project title:** Convocatoria de Acciones para la Innovación Docente y la Mejora de la Calidad: Fomento de la Enseñanza en Inglés
City of entity: CACERES, Extremadura, Spain
Type of participation: Co-ordinator
Contribution to the project: Coordinación de la docencia en inglés en la asignatura Fisiología Aviar" de la licenciatura en Veterinaria en la Facultad de Veterinaria de la Universidad de Extremadura
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 2
Amount awarded: 300 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive

Geographical area: Regional
Start-End date: 01/10/2010 - 30/09/2011 **Duration:** 1 year

7 **Project title:** Diseño y Puesta en Marcha de Procedimientos, Herramientas y Materiales para tutorización de alumnos erasmus y en prácticas externas
City of entity: CACERES, Extremadura, Spain
Type of participation: Co-ordinator
Contribution to the project: Coordinación de la elaboración de una Guía para los estudiantes Erasmus de la Facultad de Veterinaria que incluye los planes de estudio de los distintos centros que los que la F. de Veterinaria tiene convenio
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 2
Amount awarded: 450 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/10/2010 - 30/09/2011 **Duration:** 1 year

8 **Project title:** Ayuda para el fomento de la enseñanza en inglés de la asignatura `Fisiología Aviar
City of entity: CACERES, Extremadura, Spain
Type of participation: Co-ordinator
Contribution to the project: PARTICIPACION EN LA REDACCIÓN Y EJECUCIÓN DEL PROYECTO
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 2
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/10/2009 - 30/09/2010 **Duration:** 1 year

9 **Project title:** Elaboración de procedimientos para el control de calidad en los planes de estudio
City of entity: CACERES, Extremadura, Spain
Type of participation: Others
Contribution to the project: Participación en la Comisión que elaboró los procedimientos para el control de calidad de los planes de estudio en la Facultad de Veterinaria
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JULIO TOVAR ANDRADA
Amount awarded: 1.500 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive

Geographical area: Regional
Start-End date: 01/10/2009 - 30/09/2010 **Duration:** 1 year

10 **Project title:** Plan de Acogida y Tutoría de la Titulación de Veterinaria curso 2008-09
City of entity: CACERES, Extremadura, Spain
Type of participation: Others
Contribution to the project: PARTICIPACION EN LA REDACCIÓN Y EJECUCIÓN DEL PROYECTO
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: ANTONIO GONZALEZ GALLEGO
Amount awarded: 2.000 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/10/2009 - 30/09/2009 **Duration:** 1 year

11 **Project title:** Grupo de Innovación Didáctica para la Investigación sobre la docencia universitaria en inglés en el Espacio Europeo de Educación Superior
City of entity: CACERES, Extremadura, Spain
Type of participation: Co-ordinator
Contribution to the project: PARTICIPACION EN LA REDACCIÓN Y EJECUCIÓN DEL PROYECTO
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 7
Amount awarded: 1.000 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/10/2008 - 30/09/2009 **Duration:** 1 year

12 **Project title:** Proyectos para la implantación de Aprendizaje basado en problemas y/o proyectos (ABP o BPL).
City of entity: CACERES, Extremadura, Spain
Type of participation: Co-ordinator
Contribution to the project: Implantación del aprendizaje basado en problemas en la asignatura Bases de anatomía humana y fisiología en la actividad física y el deporte en la licenciatura en Ciencias del Deporte
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: JUAN ANTONIO ROSADO DIONISIO
Number of participants: 1
Amount awarded: 300 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional

Start-End date: 01/10/2008 - 30/09/2009 **Duration:** 1 year

13 **Project title:** Plan de Acogida y Tutoría de la Facultad de Veterinaria curso 2007-08
City of entity: CACERES, Extremadura, Spain
Type of participation: Others
Contribution to the project: PARTICIPACION EN LA REDACCIÓN Y EJECUCIÓN DEL PROYECTO
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: ANTONIO GONZALEZ GALLEGO
Amount awarded: 4.000 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 30/06/2007 - 30/06/2008 **Duration:** 1 year

14 **Project title:** II Plan de Acogida y Tutoría de la Titulación de Veterinaria curso 2006-07
City of entity: CACERES, Extremadura, Spain
Type of participation: Others
Contribution to the project: PARTICIPACION EN LA REDACCIÓN Y EJECUCIÓN DEL PROYECTO
Dedication regime: Part time
Time of working relationship: For a limited time
Name of the main researcher: ANTONIO GONZALEZ GALLEGO
Amount awarded: 1.000 €
Funding entity: Universidad de Extremadura **Type of entity:** University
Participating entity/entities:
Universidad de Extremadura **Type of entity:** University

Type of call: Competitive
Geographical area: Regional
Start-End date: 01/05/2006 - 30/06/2007 **Duration:** 1 year

Participation in conferences with talks focused on teacher training

1 **Name of the event:** Innovative and Creative Education and Teaching International Conference (ICETIC)
Type of event: Conference
City of event: Badajoz, Spain
Date of presentation: 22/06/2017
Organising entity: ICETIC **Type of entity:** Associations and Groups
ARECL-Q: simplifying the continuous assessment at the EHEA.

2 **Name of the event:** III Jornadas de Innovación Docente en la Educación Superior
Type of event: Conference
Type of participation: 'Participatory - poster
Aims of the event: CONGRESO DOCENTE
Target group profile: DOCENTES UNIVERSITARIOS
Presentation language: English
City of event: Valencia, Valencian Community, Spain
Date of presentation: 15/07/2014

Organising entity: Universitat de València **Type of entity:** University
City organizing entity: Valencia, Valencian Community, Spain
Publication type: Scientific-technical report
MOOC represents an effective and attractive complementary tool in the field of physiology lecturing. Libro de actas del congreso. (Spain): 2014.

3 **Name of the event:** Taller Internacional RED-U sobre ABP y EBL - Red Estatal de Docencia Universitaria
Type of event: Conference
Type of participation: 'Participatory - poster
Aims of the event: CONGRESO DOCENTE
Target group profile: DOCENTES UNIVERSITARIOS
Presentation language: Spanish
City of event: MADRID, Community of Madrid, Spain
Date of presentation: 22/06/2009
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
City organizing entity: MADRID, Community of Madrid, Spain
Publication type: Scientific-technical report
Análisis de las demandas de innovación docente del alumnado universitario: el aprendizaje basado en problemas. REVISTA DE DOCENCIA UNIVERSITARIA. 7, Galicia (Spain): Red Estatal de Docencia Universitaria, 2009. Available on-line at: <http://redaberta.usc.es/redu>. ISSN 1887-4592

4 **Name of the event:** V Congreso Internacional de Docencia Universitaria e Innovación
Type of event: Conference
Type of participation: 'Participatory - poster
Aims of the event: CONGRESO DOCENTE
Target group profile: DOCENTES UNIVERSITARIOS
Presentation language: English
City of event: LERIDA, Catalonia, Spain
Date of presentation: 03/07/2008
Organising entity: Universidad de Barcelona, U. Autónoma de Barcelona, U. Politécnica de Cataluña, U. Pompeu Fabra, U. de Lleida, U. de Girona y U. Rovira i Virgili **Type of entity:** University
City organizing entity: LERIDA, Catalonia, Spain
Publication type: Scientific-technical report
Incidencia del número de participantes en la eficacia y eficiencia de la actividad tutorial. CD de contenidos de las conferencias y comunicaciones. Catalonia (Spain): 2008. ISBN 978-84-8458-286-1

Awards received for innovation in the field teaching

1 **Name of the prize:** PREMIO A LA EXCELENCIA DOCENTE
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Proposed by: UNIVERSIDAD DE EXTREMADURA
Conferral date: 09/2016

2 **Name of the prize:** PREMIO A LA EXCELENCIA DOCENTE
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Proposed by: UNIVERSIDAD DE EXTREMADURA

Conferral date: 09/2010

Other activities/achievements not included above

1 **Description of the activity:** Profesor Tutor del Plan de Acogida y Tutoría de la Titulación (PATT) del grado en Veterinaria en la Facultad de Veterinaria. Cursos 2006/07-continúa
Organising entity: Universidad de Extremadura **Type of entity:** University
End date: 2018

2 **Description of the activity:** Profesor Tutor del Plan de Acogida y Tutoría de la Titulación (PATT) del grado en Veterinaria en la Facultad de Veterinaria. Cursos 2006/07-continúa
Organising entity: Universidad de Extremadura **Type of entity:** University
End date: 2017

3 **Description of the activity:** Profesor Tutor del Plan de Acogida y Tutoría de la Titulación (PATT) del grado en Veterinaria en la Facultad de Veterinaria. Cursos 2006/07-continúa
Organising entity: Universidad de Extremadura **Type of entity:** University
End date: 2016

4 **Description of the activity:** Miembro del tribunal de Tesis Doctoral de Dña Paola Alejandra Romecin Durán dirigida por los Dres. Joaquin M. García Estañ y Nomeí T. Marin Atucha de la Universidad de Murcia
Organising entity: Universidad de Murcia **Type of entity:** University
End date: 12/12/2014

5 **Description of the activity:** Miembro del tribunal de Tesis Doctoral de D. Enoch Luis Baltazar dirigida por el Dr. Felix Viana de la Iglesia de la Universidad Miguel Hernandez
Organising entity: Instituto de Neurociencias de Alicante **Type of entity:** State agency
End date: 11/12/2014

6 **Description of the activity:** Profesor del Curso de Perfeccionamiento "Formación en protección y experimentación animal (categoría C)", ediciones de 2013 y 2014
Organising entity: Universidad de Extremadura **Type of entity:** University
End date: 2014

7 **Description of the activity:** Tutela de prácticas extracurriculares de Beatriz Gómez Gómez en Gavetex Veterinaria SLP
Organising entity: Universidad de Extremadura **Type of entity:** University
End date: 2014

8 **Description of the activity:** Tutela de prácticas extracurriculares de Beatriz Gómez Gómez en Ingafood SA
Organising entity: Universidad de Extremadura **Type of entity:** University
End date: 2014

9 **Description of the activity:** Miembro del tribunal de Tesis de Licenciatura de Raquel Diez Bello titulado “Efecto de la rapamicina en la trombopoyesis y en la fisiología de plaquetas humanas” y dirigido por los Doctores D. Pedro Cosme Redondo, D. Alejandro Berna y D. J. J. López del Departamento de Fisiología de la Universidad de Extremadura
Organising entity: Facultad de Veterinaria, Universidad de Extremadura **Type of entity:** University
End date: 15/01/2013

10 **Description of the activity:** Miembro del tribunal de Tesis Doctoral de Ignacio Bejarano Hernando titulado "EFECTO DE LA MELATONINA SOBRE LA APOPTOSIS INDUCIDA POR ESPECIES REACTIVAS DE OXÍGENO Y SEÑAL DE CALCIO EN LA LÍNEA CELULAR LEUCÉMICA HUMANA HL-60" y dirigido por los Doctores D. Jose Antonio Pariente Llanos y Dña. Ana Beatriz Rodriguez Moratinos del Departamento de Fisiología de la Universidad de Extremadura
Organising entity: Facultad de Ciencias, Universidad de Extremadura
End date: 11/03/2011

11 **Description of the activity:** Miembro del tribunal de la Tesis de Licenciatura de Ignacion Corrales y dirigido por los Doctores D. Mª José Pozo Andrada y Dña. Pedro Javier Camello Almaráz del Departamento de Fisiología de la Universidad de Extremadura
Organising entity: Facultad de Veterinaria, Universidad de Extremadura **Type of entity:** University
End date: 2010

12 **Description of the activity:** Estancia docente de una semana de duración en el Department of Physiology, Development and Neurosciences (University of Cambridge)
City of activity: Cambridge, United Kingdom
Organising entity: Universidad de Cambridge **Type of entity:** University
End date: 20/07/2008

13 **Description of the activity:** Asistencia al Teaching Symposium: Systems Physiology teaching and learning in the 21st century
City of activity: CAMBRIDGE, United Kingdom
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
End date: 16/07/2008

14 **Description of the activity:** Asistencia al Workshop de docencia en Fisiología
City of activity: VALLADOLID, Castile and León, Spain
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
End date: 07/07/2007

15 **Description of the activity:** Estancia en el Departamento de Fisiología de la Universidad de Cádiz
City of activity: CADIZ, Andalusia, Spain
Organising entity: Universidad de Cádiz **Type of entity:** University
End date: 02/06/2006

16 **Description of the activity:** Estancia docente de una semana de duración en la Unité de Recherche de Biochimie, Inst. Superieur de Biotechnologie, Monastir, Túnez
City of activity: Monastir, Tunisia
Organising entity: Universidad de Monastir **Type of entity:** University
End date: 02/08/2005

17 **Description of the activity:** Estancia docente de una semana de duración en el Departamento de Fisiología de la Universidad de Murcia
City of activity: MURCIA, Region of Murcia, Spain
Organising entity: Universidad de Murcia **Type of entity:** University
End date: 15/07/2001

18 **Description of the activity:** Profesor del Programa de Doctorado "Biomarcadores de Salud y Estados Patológicos" aprobado por ANECA con fecha 11/11/2013
Organising entity: Universidad de Extremadura **Type of entity:** University

Scientific and technological experience

Research and development groups/teams

Name of the group: FISIOLOGIA CELULAR
Aims of the group: ESTUDIO DE LAS BASES FISIOLOGICAS DE LOS PROCESOS CELULARES
Name of principal investigator: GINES MARIA SALIDO RUIZ **Number of members in the group:** 8
Type of collaboration: Co-authorship of projects and their development
City of group: CACERES, Extremadura, Spain
Affiliation entity: Universidad de Extremadura **Type of entity:** University
Start date: 2005 **Duration:** 12 years - 6 months

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** Estudio de la interrelación de los canales capacitativos formados por ORAI Y TRPC, sus características funcionales y su relevancia en la fisiopatología del cáncer de mama
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 7
Funding entity or bodies:
Junta de Extremadura **Type of entity:** State agency
City funding entity: Merida, Extremadura, Spain

Type of participation: Principal investigator
Code according to the funding entity: IB16046
Start-End date: 01/06/2017 - 31/05/2020 **Duration:** 3 years
Total amount: 149.988,3 €
Dedication regime: Full time

2 **Name of the project:** Remodelado de la entrada de calcio en el cáncer de mama
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain

Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 7
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: Programa Estatal de Investigación Científica y Técnica de Excelencia, Subprograma Estatal de Generación de Conocimiento
Code according to the funding entity: BFU2016-74932-C2-1-P
Start-End date: 01/01/2017 - 31/12/2019 **Duration:** 3 years
Total amount: 268.300 €
Dedication regime: Full time
Applicant's contribution: SUBPROYECTO 01 (DE UN TOTAL DE 2) DEL PROYECTO COORDINADO BFU2016-74932-C2. COORDINADOR DEL PROYECTO COORDINADO: JUAN ANTONIO ROSADO DIONISIO

3 **Name of the project:** Entrada capacitativa de calcio: regulación por nuevas proteínas intracelulares y participación de proteínas STIM, Orai y TRP en la proliferación de células tumorales
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 7
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: Programa Estatal de Investigación Científica y Técnica de Excelencia, Subprograma Estatal de Generación de Conocimiento
Code according to the funding entity: BFU2013-45564-C2-1-P
Start-End date: 01/01/2014 - 30/11/2017 **Duration:** 3 years - 11 months
Total amount: 266.200 €
Dedication regime: Full time
Applicant's contribution: SUBPROYECTO 01 (DE UN TOTAL DE 2) DEL PROYECTO COORDINADO BFU2013-45564-C2. COORDINADOR DEL PROYECTO COORDINADO: JUAN ANTONIO ROSADO DIONISIO

4 **Name of the project:** Ayudas para el fortalecimiento de los grupos de investigación de Extremadura
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 19
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO

City funding entity: Spain

Type of participation: Team member
Name of the programme: AYUDA A GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Code according to the funding entity: GR15029
Start-End date: 2015 - 2017 **Duration:** 3 years
Total amount: 69.338,95 €
Dedication regime: Part time

5 **Name of the project:** Ayudas del Programa Propio de la UEx para grupos de investigación. Grupo Fisiología Celular
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Gines M Salido Ruiz
Nº of researchers: 19
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Name of the programme: Programa Propio
Code according to the funding entity: PPGRU15F4
Start-End date: 01/01/2015 - 31/12/2015 **Duration:** 1 year
Total amount: 3.607,97 €
Dedication regime: Part time

6 **Name of the project:** Actualización de sistema de análisis de imagen FICEL
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Antonio González Mateos
Nº of researchers: 22
Funding entity or bodies:
Ministerio de Economía y Competitividad **Type of entity:** Public Research Body

Type of participation: Team member
Name of the programme: SUBPROGRAMA ESTATAL DE INFRAESTRUCTURAS CIENTÍFICAS Y TÉCNICAS Y EQUIPAMIENTO
Code according to the funding entity: UNEX13-1E-1608
Start-End date: 2014 - 2015 **Duration:** 1 year
Total amount: 21.296 €
Dedication regime: Part time
Applicant's contribution: Proyecto para la adquisición de infraestructuras científicas: actualización sistema de análisis de imagen.

7 **Name of the project:** Adquisición de un citómetro analizador de imagen
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Jose Antonio Tapia García
Nº of researchers: 29
Funding entity or bodies:
Ministerio de Economía y Competitividad **Type of entity:** Public Research Body

Type of participation: Team member
Name of the programme: SUBPROGRAMA ESTATAL DE INFRAESTRUCTURAS CIENTÍFICAS Y TÉCNICAS Y EQUIPAMIENTO
Code according to the funding entity: UNEX13-1E-1772
Start-End date: 2014 - 2015 **Duration:** 1 year
Total amount: 250.470 €
Dedication regime: Part time
Applicant's contribution: Proyecto para la adquisición de infraestructuras científicas: Citómetro analizador de imagen.

8 **Name of the project:** Ayudas a los planes de actuación de los grupos catalogados
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 20
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Spain

Type of participation: Team member
Name of the programme: AYUDA A GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Code according to the funding entity: GR10010
Start-End date: 2010 - 2014 **Duration:** 4 years
Total amount: 158.400 €
Dedication regime: Part time

9 **Name of the project:** Ayudas predoctorales de formación en investigación en salud (PFIS)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Juan Antonio Rosado Dionisio
Nº of researchers: 1
Funding entity or bodies:
Instituto de Salud Carlos III **Type of entity:** Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: Ayuda predoctoral de formación en investigación en salud (PFIS). Beneficiaria: Esther López Nieto
Code according to the funding entity: Fi10/00573
Start-End date: 2010 - 2014 **Duration:** 4 years
Total amount: 54.000 €
Dedication regime: Part time

10 **Name of the project:** Regulación de la entrada de calcio por STIM, Orai y proteínas TRPC en células no excitables
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 9
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS DE INVESTIGACION FUNDAMENTAL NO ORIENTADA
Code according to the funding entity: BFU2010-21043-C02-01
Start-End date: 01/01/2011 - 31/12/2013 **Duration:** 3 years
Total amount: 219.010 €
Dedication regime: Full time
Applicant's contribution: SUBPROYECTO 01 (DE UN TOTAL DE 2) DEL PROYECTO COORDINADO BFU2010-21043-C02-00. COORDINADOR DEL PROYECTO COORDINADO: JUAN ANTONIO ROSADO DIONISIO

11 **Name of the project:** Ayuda básica a grupos de investigación 2009.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Gines M Salido Ruiz
Nº of researchers: 15
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Name of the programme: Programa Propio
Code according to the funding entity: PPGRU09F4
Start-End date: 19/07/2010 - 31/12/2011 **Duration:** 1 year
Total amount: 14.288 €
Dedication regime: Part time

12 **Name of the project:** Ayuda básica a grupos de investigación 2010.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Gines M Salido Ruiz
Nº of researchers: 15
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Name of the programme: Programa Propio
Code according to the funding entity: PPGRU10F4
Start-End date: 21/11/2010 - 20/11/2011 **Duration:** 1 year
Total amount: 10.811 €
Dedication regime: Part time

13 **Name of the project:** Estudio del valor diagnóstico de la homocisteína en la disfución plaquetaria y las disfuciones vasculares asociadas en pacientes con diabetes mellitus tipo 2. Efecto profiláctico y terapéutico del antioxidante natural cinnamtanina II
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 8
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES
City funding entity: Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/023417/09
Start-End date: 2010 - 2011 **Duration:** 1 year
Total amount: 13.050 €
Dedication regime: Full time

14 **Name of the project:** Estudio del valor diagnóstico de la homocisteína en la disfución plaquetaria y las disfuciones vasculares asociadas en pacientes con diabetes mellitus tipo 2. Efecto profiláctico y terapéutico del antioxidante natural cinnamtanina
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO

Nº of researchers: 5
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES
City funding entity: Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/016208/08
Start-End date: 2009 - 2010 **Duration:** 1 year
Total amount: 8.000 €
Dedication regime: Full time

15 **Name of the project:** Estudio del valor diagnóstico de la homocisteína en la disfución plaquetaria y las disfuciones vasculares asociadas en pacientes con diabetes mellitus tipo 2. Efecto profiláctico y terapéutico del antioxidante natural cinnamtanina
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 5
Funding entity or bodies:
Consejería de Sanidad y Consumo de la Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Mérida, Extremadura, Spain

Type of participation: Co-ordinator
Name of the programme: PLAN REGIONAL DE INVESTIGACIÓN
Code according to the funding entity: PRI08A003
Start-End date: 2009 - 2010 **Duration:** 1 year
Total amount: 19.800 €
Dedication regime: Part time

16 **Name of the project:** Evaluación de la actividad antioxidante y capacidad de inhibición de la agregación plaquetaria de antioxidantes aislados de Laurus nobilis L. (laurel) y de una colección de análogos estructurales de antioxidantes naturales
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JOAQUIN ALTAREJOS
Nº of researchers: 5
Funding entity or bodies:
Universidad de Jaén **Type of entity:** University
City funding entity: Jaén, Andalusia, Spain

Type of participation: Team member
Code according to the funding entity: UJA_08_16_05
Start-End date: 2009 - 2010 **Duration:** 1 year

Total amount: 10.000 €
Dedication regime: Part time

17 **Name of the project:** Acoplamiento conformacional de novo y entrada capacitativa de calcio en células no excitables nucleadas y anucleadas
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 6
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA
Code according to the funding entity: BFU2007-60104/BFI
Start-End date: 2007 - 2010 **Duration:** 3 years
Total amount: 157.300 €
Dedication regime: Full time

18 **Name of the project:** Ayuda para la consolidación y apoyo a los grupos de investigación inscritos en el Catálogo de Grupos de Investigación de Extremadura 2009
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 7
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Spain

Type of participation: Team member
Name of the programme: AYUDA A GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Code according to the funding entity: GRU09016
Start-End date: 2009 - 2009 **Duration:** 1 year
Total amount: 17.930 €
Dedication regime: Full time

19 **Name of the project:** Ayuda para la iniciación de la investigación, desarrollo tecnológico e innovación
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO

Nº of researchers: 2
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Principal investigator
Name of the programme: Director de investigación de Dña. Natalia Alba Dionisio Flores
Start-End date: 2008 - 2009 **Duration:** 1 year
Total amount: 3.000 €
Dedication regime: Part time

20 **Name of the project:** Ayudas para la consolidación y apoyo a los grupos de investigación inscritos en el catálogo de grupos de investigación de Extremadura
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 9
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Spain

Type of participation: Team member
Name of the programme: AYUDA A GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Code according to the funding entity: GRU08004
Start-End date: 2008 - 2009 **Duration:** 1 year
Total amount: 11.872 €
Dedication regime: Part time

21 **Name of the project:** Ayuda básica a grupos de investigación 2008.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Gines M Salido Ruiz
Nº of researchers: 12
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Name of the programme: Programa Propio
Code according to the funding entity: PPGRU08F4
Start-End date: 01/01/2008 - 31/12/2008 **Duration:** 1 year
Total amount: 5.057,53 €
Dedication regime: Part time

22 **Name of the project:** Caracterización de los efectos de plantas medicinales en la función plaquetaria II
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 4
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES Y COOPERACION **Type of entity:** ORGANISMO PUBLICO
City funding entity: MADRID, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/9408/07
Start-End date: 2008 - 2008 **Duration:** 1 year
Total amount: 13.000 €
Dedication regime: Full time

23 **Name of the project:** Estudio del efecto protector de los antioxidantes naturales proantocianidina y cicloolivil en el desarrollo de alteraciones plaquetarias en la diabetes mellitus tipo 2 II
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 7
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES Y COOPERACION **Type of entity:** ORGANISMO PUBLICO
City funding entity: MADRID, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/8203/07
Start-End date: 2008 - 2008 **Duration:** 1 year
Total amount: 13.900 €
Dedication regime: Full time

24 **Name of the project:** Ayuda básica a grupos de investigación 2007.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Gines M Salido Ruiz
Nº of researchers: 12
Funding entity or bodies:

Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Name of the programme: Programa Propio
Code according to the funding entity: PPGRU07F4
Start-End date: 01/01/2007 - 31/12/2007 **Duration:** 1 year
Total amount: 3.741,62 €
Dedication regime: Part time

25 **Name of the project:** Ayuda para la consolidación y apoyo a los grupos de investigación inscritos en el Catálogo de Grupos de Investigación de Extremadura 2006
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 7
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Spain

Type of participation: Team member
Name of the programme: AYUDA A GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Code according to the funding entity: GRU07009
Start-End date: 2007 - 2007 **Duration:** 1 year
Total amount: 8.800 €
Dedication regime: Full time

26 **Name of the project:** Caracterización de los efectos de plantas medicinales en la función plaquetaria
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 4
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES Y COOPERACION **Type of entity:** ORGANISMO PUBLICO
City funding entity: MADRID, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/7360/06
Start-End date: 2007 - 2007 **Duration:** 1 year
Total amount: 11.000 €
Dedication regime: Full time

27 **Name of the project:** Estudio del efecto protector de los antioxidantes naturales proantocianidina y cicloolivil en el desarrollo de alteraciones plaquetarias en la diabetes mellitus tipo 2
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 7
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES Y COOPERACION **Type of entity:** ORGANISMO PUBLICO
City funding entity: MADRID, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/4808/06
Start-End date: 2007 - 2007 **Duration:** 1 year
Total amount: 11.000 €
Dedication regime: Full time

28 **Name of the project:** Estudio del efecto terapéutico de los antioxidantes naturales proantocianidina y cicloolivil sobre las alteraciones vasculares asociadas a las plaquetas en pacientes con diabetes mellitus tipo 2
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 5
Funding entity or bodies:
Consejería de Sanidad y Consumo de la Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Mérida, Extremadura, Spain

Type of participation: Co-ordinator
Code according to the funding entity: SCSS0619
Start-End date: 2006 - 2007 **Duration:** 1 year
Total amount: 8.642 €
Dedication regime: Part time

29 **Name of the project:** ADP ribosa cíclica y NAADP como señalizadores de depósitos intracelulares de calcio. Nuevos aspectos funcionales de la señal de calcio en el músculo liso vesicular
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): MARIA JOSE POZO ANDRADA

Nº of researchers: 6
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member
Name of the programme: PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA
Code according to the funding entity: BFI2004-00637
Start-End date: 2004 - 2007 **Duration:** 3 years
Total amount: 143.550 €
Dedication regime: Part time

30 **Name of the project:** Homeostasis del Ca2+ en un modelo experimental de pancreatitis alcohólica
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 5
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Extremadura, Spain

Type of participation: Team member
Name of the programme: PLAN REGIONAL DE INVESTIGACIÓN
Code according to the funding entity: 2PR04A009
Start-End date: 2004 - 2007 **Duration:** 3 years
Total amount: 34.100 €
Dedication regime: Part time

31 **Name of the project:** Relación entre la señal de calcio, especies reactivas de oxígeno y apoptosis en células no excitables
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JOSE ANTONIO PARIENTE LLANOS
Nº of researchers: 6
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member
Name of the programme: PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA
Code according to the funding entity: BFU2004-00165/BFI
Start-End date: 2004 - 2007 **Duration:** 3 years
Total amount: 110.000 €
Dedication regime: Part time

32 **Name of the project:** Ayuda básica a grupos de investigación 2006.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): Gines M Salido Ruiz
Nº of researchers: 12
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Name of the programme: Programa Propio
Code according to the funding entity: PPGRU06F4
Start-End date: 01/01/2006 - 31/12/2006 **Duration:** 1 year
Total amount: 1.665,65 €
Dedication regime: Part time

33 **Name of the project:** Ayuda para la consolidación y apoyo a los grupos de investigación inscritos en el Catálogo de Grupos de Investigación de Extremadura 2005
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 7
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Spain

Type of participation: Team member
Name of the programme: AYUDA A GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Code according to the funding entity: GRU06053
Start-End date: 2006 - 2006 **Duration:** 1 year
Total amount: 3.960 €
Dedication regime: Full time

34 **Name of the project:** Participación del citoesqueleto de actina y proteínas asociadas en la regulación del proceso de entrada capacitativa de calcio. Implicación en el desarrollo de complicaciones vasculares en la diabetes mellitus II
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 7
Funding entity or bodies:

MINISTERIO DE ASUNTOS EXTERIORES Y COOPERACION **Type of entity:** ORGANISMO PUBLICO
City funding entity: MADRID, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: A/2936/05
Start-End date: 2006 - 2006 **Duration:** 1 year
Total amount: 8.600 €
Dedication regime: Full time

35 **Name of the project:** Formación e investigación de diabetes mellitus tipo 2 en Tunez
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 3
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Principal investigator
Start-End date: 2005 - 2005 **Duration:** 1 year
Total amount: 1.400 €
Dedication regime: Part time

36 **Name of the project:** Papel de los radicales de oxígeno en las alteraciones de la homeostasis del calcio y la agregación plaquetaria de individuos diabéticos tipo 2: efecto terapéutico de los agentes antioxidantede actina e implicaciones en la exocitosis en células acinares pancreáticas
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 5
Funding entity or bodies:
Consejería de Sanidad y Consumo de la Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Mérida, Extremadura, Spain

Type of participation: Principal investigator
Code according to the funding entity: SCSS0405
Start-End date: 2005 - 2005 **Duration:** 1 year
Total amount: 19.279 €
Dedication regime: Part time

37 **Name of the project:** Participación del citoesqueleto de actina y proteínas asociadas en la regulación del proceso de entrada capacitativa de calcio. Implicación en el desarrollo de complicaciones vasculares en la diabetes mellitus

Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 6
Funding entity or bodies:
MINISTERIO DE ASUNTOS EXTERIORES Y COOPERACION **Type of entity:** ORGANISMO PUBLICO
City funding entity: MADRID, Community of Madrid, Spain

Type of participation: Principal investigator
Name of the programme: PROYECTOS CONJUNTOS DE INVESTIGACIÓN
Code according to the funding entity: 38/04/P/E
Start-End date: 2005 - 2005 **Duration:** 1 year
Total amount: 7.497 €
Dedication regime: Full time

38 **Name of the project:** Alteraciones en la homeostasis del ion calcio en plaquetas de individuos diabéticos II: papel relevante de la bomba de calcio de la membrana plasmática (PMCA)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 4
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Extremadura, Spain

Type of participation: Principal investigator
Code according to the funding entity: 03/57
Start-End date: 2003 - 2004 **Duration:** 1 year
Total amount: 3.757 €
Dedication regime: Part time

39 **Name of the project:** Agentes oxidantes y homeostasis del ion calcio en dos modelos celulares no excitables: acinos pancreáticos y plaquetas. Implicaciones del citoesqueleto
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JOSE ANTONIO PARIENTE LLANOS
Nº of researchers: 6
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member
Name of the programme: PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA
Code according to the funding entity: BFI2001-0624
Start-End date: 2001 - 2004 **Duration:** 3 years
Total amount: 109.985 €
Dedication regime: Part time

40 **Name of the project:** Conformational coupling and store-mediated calcium entry in human platelets
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Degree of contribution: Researcher
Entity where project took place: UNIVERSIDAD DE CAMBRIDGE **Type of entity:** University
City of entity: CAMBRIDGE, United Kingdom
Name principal investigator (PI, Co-PI....): STEWART SAGE
Nº of researchers: 2
Funding entity or bodies:
WELCOME TRUST **Type of entity:** Public Research Body
City funding entity: LONDRES, United Kingdom

Type of participation: Team member
Code according to the funding entity: 064070/Z/01/Z
Start-End date: 2001 - 2004 **Duration:** 3 years
Total amount: 296.135 €
Dedication regime: Full time

41 **Name of the project:** Vías alternativas a la clásica" entrada capacitativa de calcio. Papel en la colecistitis aguda
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): MARIA JOSE POZO ANDRADA
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member
Name of the programme: PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA
Code according to the funding entity: SAF2001-0295
Start-End date: 2001 - 2004 **Duration:** 3 years
Total amount: 83.222 €
Dedication regime: Part time

42 **Name of the project:** Papel de las proteínas SNARE en la entrada capacitativa de calcio
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Type of entity: University

Entity where project took place: Universidad de Extremadura
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 1
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Principal investigator
Start-End date: 2003 - 2003 **Duration:** 1 year
Total amount: 750 €
Dedication regime: Part time

43 **Name of the project:** Alteraciones en la homeostasis del ion calcio en plaquetas de individuos diabéticos: Relación con el citoesqueleto
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JOSE ANTONIO PARIENTE LLANOS
Nº of researchers: 5
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Community of Madrid, Spain

Type of participation: Team member
Code according to the funding entity: 02/0002
Start-End date: 2002 - 2003 **Duration:** 1 year
Total amount: 5.625 €
Dedication regime: Part time

44 **Name of the project:** Efecto del estrés oxidativo en células acinares pancreáticas: desarrollo de apoptosis
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): ANTONIO GONZALEZ MATEOS
Nº of researchers: 4
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Team member
Start-End date: 2002 - 2003 **Duration:** 1 year
Total amount: 641,35 €
Dedication regime: Part time

45 **Name of the project:** Efecto de los agentes oxidantes en la reorganización del citoesqueleto de actina e implicaciones en la exocitosis en células acinares pancreáticas
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JUAN ANTONIO ROSADO DIONISIO
Nº of researchers: 3
Funding entity or bodies:
Universidad de Extremadura **Type of entity:** University
City funding entity: Badajoz, Extremadura, Spain

Type of participation: Principal investigator
Start-End date: 2002 - 2002 **Duration:** 1 year
Total amount: 4.500 €
Dedication regime: Part time

46 **Name of the project:** Prevención de la pancreatitis aguda mediante el tratamiento con agentes antioxidantes
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): JOSE ANTONIO PARIENTE LLANOS
Nº of researchers: 4
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Community of Madrid, Spain

Type of participation: Team member
Start-End date: 2002 - 2002 **Duration:** 1 year
Total amount: 4.507 €
Dedication regime: Part time

47 **Name of the project:** Protein tyrosine phosphorylation, calcium store depletion and the activation of calcium entry in human platelets
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Degree of contribution: Researcher
Entity where project took place: UNIVERSIDAD DE CAMBRIDGE **Type of entity:** University
City of entity: CAMBRIDGE, United Kingdom
Name principal investigator (PI, Co-PI....): STEWART SAGE
Nº of researchers: 3
Funding entity or bodies:
WELCOME TRUST **Type of entity:** Public Research Body
City funding entity: LONDRES, United Kingdom

Type of participation: Team member

Code according to the funding entity: 051560/Z/97/Z
Start-End date: 1997 - 1999 **Duration:** 3 years
Total amount: 120.874 €
Dedication regime: Full time

48 **Name of the project:** Fosforilación en residuos de tirosina de las proteínas asociadas a las placas de adhesión focal
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 7
Funding entity or bodies:
Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City funding entity: Community of Madrid, Spain

Type of participation: Team member
Start-End date: 1997 - 1998 **Duration:** 1 year
Total amount: 5.108 €
Dedication regime: Full time

49 **Name of the project:** Vía de la tirosina cinasa en el páncreas exocrino. Relación con otros mensajeros intracelulares
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad de Extremadura **Type of entity:** University
City of entity: CACERES, Extremadura, Spain
Name principal investigator (PI, Co-PI....): GINES MARIA SALIDO RUIZ
Nº of researchers: 7
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** ORGANISMO PUBLICO
City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member
Code according to the funding entity: PB94-1416-CO2-02
Start-End date: 1995 - 1998 **Duration:** 3 years
Total amount: 34.558 €
Dedication regime: Full time

R&D non-competitive contracts, agreements or projects with public or private entities

1 **Name of the project:** ESTUDIO DEL EFECTO DE LA MELATONINA EN LA SOBREEXPRESIÓN DEL CANAL TRPC6 EN CÉLULAS DE CÁNCER DE MAMA
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Juan Antonio Rosado Dionisio; Sergio Regodón Mena
Nº of researchers: 7
Participating entity/entities: HERMANOS REGODON S.C.; Universidad de Extremadura
Start date: 23/03/2018 **Duration:** 1 year - 6 months
Total amount: 27.361,41 €

2 **Name of the project:** Utilidad práctica de la melatonina en la prevención de enfermedades infecto-contagiosas ovinas
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Sergio Regodón
Nº of researchers: 6
Participating entity/entities: Junta de Extremadura; Universidad de Extremadura
Start date: 06/08/2008 **Duration:** 2 years
Total amount: 108.900 €

3 **Name of the project:** Contrato para la comercialización del producto CINNAMTANNIN B-1
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Joaquín Altarejos
Nº of researchers: 4
Participating entity/entities: Alexis; Universidad de Extremadura; Universidad de Jaén
Start date: 08/02/2008 **Duration:** 2 years

4 **Name of the project:** Convenio de colaboración entre la Universidad de Extremadura y la empresa Clínica Quirúrgica Cacereña para el desarrollo de proyecto de desarrollo tecnológico, innovación y transferencia de tecnología
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Juan Antonio Rosado
Nº of researchers: 4
Participating entity/entities: Clínica Quirúrgica Cacereña; Universidad de Extremadura
Start date: 02/2008 **Duration:** 2 years

5 **Name of the project:** Equipamiento Instituto Universitario del Cerdo Ibérico
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Jesús Ventanas
Nº of researchers: 10
Start date: 2003 **Duration:** 2 years
Total amount: 774.726,4 €

Results

Industrial and intellectual property

Title registered industrial property: Patente de invención « Procedimiento para la elución, separación e identificación de proteínas y aparato para realizarlo »
Type of industrial property: Patent of invention **Author's rights:** Yes
Inventors/authors/obtainers: PEDRO COSME REDONDO LIBERAL; JUAN ANTONIO ROSADO DIONISIO; JOSE ANTONIO PARIENTE LLANOS; GINES MARIA SALIDO RUIZ
Entity holder of rights: Universidad de Extremadura
Nº of application: 2 337 225
Country of inscription: Spain
Date of register: 2009
Conferral date: 2011
Nº of patent: 2 337 225
Spanish patent: Yes **EU patent:** No
International non-EU patent: No

Scientific and technological activities

Scientific production

H index: 45
Date of application: 25/06/2019

Publications, scientific and technical documents

1 Jose Javier Lopez; Letizia Albarrán; Isaac Jardin; Jose Sánchez Collado; Pedro Cosme Redondo; Nuria Bermejo; Regis Bobe; Tarik Smani; Juan Antonio Rosado. Filamin A Modulates Store-Operated Ca2+ Entry by Regulating STIM1 (Stromal Interaction Molecule 1)-Orai1 Association in Human Platelets.Arteriosclerosis, Thrombosis and Vascular Biology. 38 - 2, pp. 386 - 397. Nueva York(United States of America): American Heart Association, 02/2018. Available on-line at: <doi: 10.1161/ATVBAHA.117.310139>. ISSN 1079-5642
Type of production: Scientific paper **Format:** Journal
Position of signature: 9 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 9 **Corresponding author:** Yes
Impact source: ISI **Category:** PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 6.086 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 65
Relevant publication: Yes

2 Ignacio Diaz; Eva Calderon Sanchez; Raquel Del Toro; JAvier Avila Medina; Eva Sánchez de Rojas-de-Pedro; Alejandro Dominguez Rodriguez; JUAN ANTONIO ROSADO DIONISIO; Abdelkrim Hmadcha; Antonio Ordoñez; TARIK SMANI HAJAMI. miR-125a, miR-139 and miR-324 contribute to Urocortin protection against myocardial

ischemia-reperfusion injury. SCIENTIFIC REPORTS. 7, pp. 8898. Londres(United Kingdom): NATURE PUBLISHING GROUP, 2017. Available on-line at: <doi: 10.1038/s41598-017-09198-x>. ISSN 2045-2322

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 10
Corresponding author: No
Impact source: ISI
Category: MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4.259
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 64

Relevant publication: Yes

3 Frederic Adam; Abdel-Majid Khatib; Jose J Lopez; Camille Vatier; Sabrina Turpin; Adeline Muscat; Fabienne Soulet; Anne Aries; Isaac Jardin Polo; Regis Bobe; Alain Stepanian; Dominique De Prost; Cedric Dray; Juan A. Rosado; Philippe Valet; Bruno Feve; Geraldine Siegfried. Apelin acts as an antithrombotic factor by inhibiting platelet functions. BLOOD. 127, pp. 908 - 920. WHASINGTON(United States of America): AMER SOC HEMATOLOGY, 2016. Available on-line at: <doi: 10.1182/blood-2014-05-578781.>. ISSN 0006-4971

Type of production: Scientific paper
Format: Journal
Position of signature: 14
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 17
Corresponding author: No
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 10.452
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 68

Source of citations: WOS
Citations: 0

Relevant results: Apelin peptide and its receptor APJ are directly implicated in various physiological processes ranging from cardiovascular homeostasis to immune signaling. Here, we show that apelin is a key player in hemostasis with an ability to inhibit thrombin- and collagen-mediated platelet activation. Mice lacking apelin displayed shorter bleeding time and prothrombotic profile. Their platelets exhibited increased adhesion and reduced occlusion time in venules and displayed higher aggregation rate following their activation by thrombin compared to wild-type platelets. Consequently, human and mouse platelets express apelin and its receptor APJ. Apelin directly interferes with thrombin-mediated signaling pathways and platelet activation, secretion and aggregation but not with ADP and thromboxane A2-mediated pathways. Intravenous apelin administration into mice induced excessive bleeding and prevented thrombosis. Taken together, these findings suggest that apelin and/or APJ agonists could potentially be useful adducts in antiplatelet therapies, and may also provide a promising perspective for patients that continue to display adverse thrombotic events with current antiplatelet therapies.

Reviews in journals: 1
Relevant publication: Yes

4 LETIZIA ALBARRAN ALONSO; JOSE JAVIER LOPEZ BARBA; NIDHAL BEN AMOR; FRANCISCO E MARTIN CANO; ALEJANDRO BERNA ERRO; TARIK SMANI HAJAMI; GINES M SALIDO RUIZ; JUAN ANTONIO ROSADO DIONISIO. Dynamic interaction of SARAF with STIM1 and Orai1 to modulate store-operated calcium entry. SCIENTIFIC REPORTS. 6, pp. 24452. Londres(United Kingdom): NATURE PUBLISHING GROUP, 2016. Available on-line at: <doi: 10.1038/srep24452>. ISSN 2045-2322

Type of production: Scientific paper
Format: Journal
Position of signature: 8
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 8
Corresponding author: Yes
Impact source: ISI
Category: MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 5.578
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 57

Relevant publication: Yes

5 Juan Antonio Rosado; Tarik Smani. RECENT ADVANCES IN CARDIOVASCULAR AND CIRCULATORY SIGNALLING. CURRENT VASCULAR PHARMACOLOGY. 11 - 4, pp. 407 - 408. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2013. Available on-line at: <DOI : 10.2174/1570161111311040005>. ISSN 1570-1611

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Editor or co-editor
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 2.908
Journal in the top 25%: No
Position of publication: 27
No. of journals in the cat.: 65

Relevant results: Editorial del Special Issue: Recent Advances in Cardiovascular and Circulatory Signalling para la revista Current Vascular Pharmacology. Editores del Special Issue: Juan Antonio Rosado y Tarik Smani.
Relevant publication: Yes

6 Raquel Diez; Isaac Jardin Polo; Jose Javier Lopez; Mohammed El Haouari; J Ortega; Joaquin Altarejos; Gines María Salido Ruiz; Sofia Salido; Juan A. Rosado. (-)-Oleocanthal inhibits proliferation and migration by modulating Ca2+ entry through TRPC6 in breast cancer cells.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1866 - 3, pp. 474 - 485. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 03/2019. Available on-line at: <doi: 10.1016/j.bbamcr.2018.10.010>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 9
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 9
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.651
Journal in the top 25%: Yes
Position of publication: 55
No. of journals in the cat.: 292

Source of citations: WOS

7 Carlos Cantonero; Jose Sanchez Collado; María Ángeles González Núñez; Gines María Salido Ruiz; Jose Javier Lopez; Isaac Jardin Polo; Juan A. Rosado. Store-independent Orai1-mediated Ca2+ entry and cancer.CELL CALCIUM. 80, pp. 1 - 7. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 03/2019. Available on-line at: <doi: 10.1016/j.ceca.2019.02.012.>. ISSN 0143-4160

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Corresponding author: Yes
Impact source: ISI
Category: Cell Biology
Impact index in year of publication: 3,718
Journal in the top 25%: No
Position of publication: 80
No. of journals in the cat.: 190

Source of citations: WOS

8 D Falcon; Isabel Galeano Otero; Eva Calderón; Raquel Del Toro; M Martinez Bornez; Juan Antonio Rosado; Abdelkrim Hmadcha; Tarik Smani. TRP Channels: Current Perspectives in the Adverse Cardiac Remodeling. Frontiers in Physiology. 10, pp. 159. Frontiers Research Foundation, 03/2019. Available on-line at: <doi: 10.3389/fphys.2019.00159.>. ISSN 1664-042X

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 8
Corresponding author: No
Impact source: ISI
Category: PHYSIOLOGY
Impact index in year of publication: 3.394
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 83

9 Mohammed El Haouari; Juan Antonio Rosado. Phytochemical, Anti-diabetic and Cardiovascular Properties of Urtica dioica L. (Urticaceae): A Review.Mini-Reviews in Medicinal Chemistry. 19 - 1, pp. 63 - 71. Bentham Sciences, 01/2019. Available on-line at: <doi: 10.2174/1389557518666180924121528>. ISSN 1875-5607

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: CHEMISTRY, MEDICINAL
Impact index in year of publication: 2,645
Journal in the top 25%: No
Position of publication: 28
No. of journals in the cat.: 59

10 Isaac Jardin; Jose Javier Lopez; Ginés M. Salido; Juan Antonio Rosado Dionisio. Store-Operated Ca2+ Entry in Breast Cancer Cells: Remodeling and Functional Role.International Journal of Molecular Sciences. 19 - 12, pp. E4053. Basel(Switzerland): MDPI, 12/2018. Available on-line at: <doi: 10.3390/ijms19124053>. ISSN 1422-0067

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Biochemistry, Genetics and Molecular Biology (miscellaneous)
Impact index in year of publication: 3,687
Journal in the top 25%: No
Position of publication: 90
No. of journals in the cat.: 292

11 Tarik Smani; Luis J. Gómez; Sergio Regodón; Geoffrey Esty Woodard; Geraldine Siegfried; Abdel-Magid Khatib; Juan Antonio Rosado. TRP Channels in Angiogenesis and Other Endothelial Functions. Frontiers in Physiology. 9, pp. 1731. Frontiers Research Foundation, 12/2018. Available on-line at: <doi.org/10.3389/fphys.2018.01731>. ISSN 1664-042X

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Corresponding author: Yes
Impact source: ISI
Category: PHYSIOLOGY
Impact index in year of publication: 3.394
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 83

12 Letizia Albarrán; Jose Javier Lopez; Isaac Jardin; Jose Sánchez Collado; Alejandro Berna Erro; Tarik Smani; Pedro J. Camello; Ginés M. Salido; Juan Antonio Rosado Dionisio. EFHB is a Novel Cytosolic Ca2+ Sensor That Modulates STIM1-SARAF Interaction.Cellular Physiology and Biochemistry. 51 - 3, pp. 1164 - 1178. Basel(Switzerland): Karger, 11/2018. Available on-line at: <doi: 10.1159/000495494>. ISSN 1015-8987

Type of production: Scientific paper
Format: Journal
Position of signature: 9
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 9
Corresponding author: Yes
Impact source: ISI
Category: PHYSIOLOGY
Impact index in year of publication: 5.500
Journal in the top 25%: Yes

Position of publication: 8 **No. of journals in the cat.:** 83

13 Jose Javier Lopez; Isaac Jardin; Juan Antonio Rosado. Filamin A modulates platelet function.Aging. 6 - 10, pp. 3052 - 3053. Nueva York(United States of America): Impact Journals, LLC, 11/2018. Available on-line at: <doi: 10.18632/aging.101635>. ISSN 1945-4589

Type of production: Scientific paper **Format:** Journal
Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 3 **Corresponding author:** Yes
Impact source: ISI **Category:** GERIATRICS & GERONTOLOGY
Impact index in year of publication: 5.179 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 53

14 Isaac Jardin; Raquel Diez Bello; Jose Javier Lopez; Pedro Cosme Redondo; Ginés M. Salido; Tarik Smani; Juan Antonio Rosado Dionisio. TRPC6 Channels Are Required for Proliferation, Migration and Invasion of Breast Cancer Cell Lines by Modulation of Orai1 and Orai3 Surface Exposure.Cancers. 10 - 9, pp. pii: E331. Basel(Switzerland): MDPI, 09/2018. Available on-line at: <doi: 10.3390/cancers10090331.>. ISSN 2072-6694

Type of production: Scientific paper **Format:** Journal
Position of signature: 7 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7 **Corresponding author:** Yes
Impact source: ISI **Category:** ONCOLOGY
Impact index in year of publication: 5,326 **Journal in the top 25%:** Yes
Position of publication: 45 **No. of journals in the cat.:** 223

15 Alejandro Dominguez Rodriguez; Isabel Mayoral Gonzalez; Javier Avila Medina; ES de Rojas; Eva Calderón; Ignacio Diaz; A Hmadcha; Antonio Castellano; Juan Antonio Rosado; JP Benitah; Ana María Gomez; Antonio Ordoñez; Tarik Smani. Urocortin-2 Prevents Dysregulation of Ca2+ Homeostasis and Improves Early Cardiac Remodeling After Ischemia and Reperfusion.Frontiers in Physiology. 9, pp. 813. Frontiers Research Foundation, 07/2018. Available on-line at: <doi: 10.3389/fphys.2018.00813>. ISSN 1664-042X

Type of production: Scientific paper **Format:** Journal
Position of signature: 9 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 13 **Corresponding author:** No
Impact source: ISI **Category:** PHYSIOLOGY
Impact index in year of publication: 3.394 **Journal in the top 25%:** Yes
Position of publication: 20 **No. of journals in the cat.:** 83

16 Isaac Jardin Polo; Letizia Albarran; Gines María Salido Ruiz; Jose Javier Lopez; Stewart O. Sage; Juan A. Rosado. Fine-tuning of store-operated calcium entry by fast and slow Ca2+-dependent inactivation: Involvement of SARAF.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1865 - 3, pp. 463 - 469. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 03/2018. Available on-line at: <doi: 10.1016/j.bbamcr.2017.12.001.>. ISSN 0167-4889

Type of production: Scientific paper **Format:** Journal
Position of signature: 6 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.651 **Journal in the top 25%:** Yes

Position of publication: 55
No. of journals in the cat.: 292

Source of citations: WOS

17 Javier Avila Medina; Isabel Mayoral Gonzalez; Alejandro Dominguez Rodriguez; I Gallardo Castillo; Juan Ribas; Antonio Ordoñez; Juan Antonio Rosado; Tarik Smani. The Complex Role of Store Operated Calcium Entry Pathways and Related Proteins in the Function of Cardiac, Skeletal and Vascular Smooth Muscle Cells.Frontiers in Physiology. 9, pp. 257. Frontiers Research Foundation, 03/2018. Available on-line at: <doi: 10.3389/fphys.2018.00257>. ISSN 1664-042X

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 8
Corresponding author: No
Impact source: ISI
Category: PHYSIOLOGY
Impact index in year of publication: 3.394
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 83

18 Jose Javier Lopez Barba; Isaac Jardin; Carlos Cantonero; ML Duran; MJ Tarancón Rubio; Maria Reyes Panadero; F Jimenez; R Montero; MJ González; M Martinez; MJ Hernandez; JM Brull; AJ Corbacho; E Delgado; María Purificación Granados; Luis Gomez Gordo; J. A. Rosado; Pedro Cosme Redondo. Involvement of stanniocalcins in the deregulation of glycaemia in obese mice and type 2 diabetic patients.JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 22 - 1, pp. 684 - 694. Malden(United States of America): WILEY-BLACKWELL, 01/2018. Available on-line at: <doi: 10.1111/jcmm.13355>. ISSN 1582-1838

Type of production: Scientific paper
Format: Journal
Position of signature: 17
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 18
Corresponding author: No
Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 4.302
Journal in the top 25%: Yes
Position of publication: 25
No. of journals in the cat.: 133

Source of citations: WOS
Citations: 0

19 Juan Antonio Rosado; Raquel Diez Bello; Gines M. Salido; Isaac Jardin. Fine-tuning of microRNAs in type 2 diabetes mellitus.Current Medicinal Chemistry. Bentham Sciences, 2018. Available on-line at: <doi: 10.2174/0929867325666171205163944>. ISSN 0929-8673

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Corresponding author: No
Impact source: ISI
Category: CHEMISTRY, MEDICINAL
Impact index in year of publication: 3.469
Journal in the top 25%: No
Position of publication: 16
No. of journals in the cat.: 59

20 Jose Javier Lopez; Mohammed El Haouari; Isaac Jardin; Nieves Alonso; Sergio Regodon; Raquel Diez Bello; Pedro C. Redondo; Juan Antonio Rosado. Flavonoids and platelet-derived thrombotic disorders.Current Medicinal Chemistry. Bentham Sciences, 2018. Available on-line at: <doi: 10.2174/0929867325666180417170218>. ISSN 0929-8673

Type of production: Scientific paper
Format: Journal
Position of signature: 8
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 8
Corresponding author: Yes
Impact source: ISI
Category: CHEMISTRY, MEDICINAL
Impact index in year of publication: 3.469
Journal in the top 25%: No
Position of publication: 16
No. of journals in the cat.: 59

21 Mohammed El Haouari; Juan Antonio Rosado. Phytochemical, Anti-Diabetic And Cardiovascular Properties Of Urtica Dioica L. (Urticaceae): A Review.Mini Reviews in Medicinal Chemistry. Bentham Sciences, 2018. Available on-line at: <doi: 10.2174/1389557518666180924121528>. ISSN 1389-5575

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Chemistry, Medicinal
Impact index in year of publication: 2.645
Journal in the top 25%: No
Position of publication: 28
No. of journals in the cat.: 59

22 Raquel Diez Bello; Isaac Jardin Polo; Gines María Salido Ruiz; Juan A. Rosado. Orai1 and Orai2 mediate store-operated calcium entry that regulates HL60 cell migration and FAK phosphorylation.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1864, AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2017. Available on-line at: <doi: 10.1016/j.bbamcr.2016.11.014.>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291

Source of citations: WOS
Citations: 0

Relevant results: Store-operated Ca2+ entry (SOCE) is a major mechanism for the regulation of intracellular Ca2+ homeostasis and cellular function. Emerging evidence has revealed that altered expression and function of the molecular determinants of SOCE play a critical role in the development or maintenance of several cancer hallmarks, including enhanced proliferation and migration. Here we show that, in the acute myeloid leukemia cell line HL60, Orai2 is highly expressed at the transcript level, followed by the expression of Orai1. Using fluorescence Ca2+ imaging we found that Orai2 silencing significantly attenuated thapsigargin-induced SOCE, as well as knockdown of Orai1, while silencing the expression of both channels almost completely reduced SOCE, thus suggesting that SOCE in these cells is strongly dependent on Orai1 and Orai2. On the other hand, the expression of TRPC1, TRPC3 and TRPC6 is almost absent at the transcript and protein level. Bromodeoxyuridine cell proliferation assay revealed that Orai1 and Orai2 expression silencing significantly reduced HL60 cell proliferation. Furthermore, knockdown of Orai1 and Orai2 significantly attenuated the ability of HL60 to migrate in vitro as determined by transwell migration assay, probably due to the impairment of FAK tyrosine phosphorylation. These findings provide evidence for a role for Orai1 and Orai2, in SOCE and migration in the human HL60 promyeloblastic cell line.

23 Letizia Albarran; Sergio Regodon; Gines M Salido; Jose J Lopez; Juan Antonio Rosado. Role of STIM1 in the surface expression of SARAF.Channels. 11, pp. 84 - 88. LANDES BIOSCIENCE, 2017. Available on-line at: <doi: 10.1080/19336950.2016.1212141.>. ISSN 1933-6950

Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Impact source: ISI
Category: BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 2.042
Position of publication: 208
Journal in the top 25%: No
No. of journals in the cat.: 286

24 Alejandro Berna Erro; Isaac Jardin; Gines M Salido; Juan Antonio Rosado. Role of STIM2 in cell function and physiopathology. Journal of Physiology. 595, pp. 3111 - 3128. WILEY-BLACKWELL, 2017. Available on-line at: <doi: 10.1113/JP273889.>. ISSN 0022-3751

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Physiology
Impact index in year of publication: 4.739
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 84

25 Paola Romecín; Noemí M. Atucha; EG Navarro; M. Clara Ortíz; David Iyú; Juan Antonio Rosado; Joaquin García Estañ. Role of homocysteine and folic acid on the altered calcium homeostasis of platelets from rats with biliary cirrhosis.Platelets. Taylor and Francis, 2017. Available on-line at: <doi: 10.1080/09537104.2016.1265920.>. ISSN 0953-7104

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Corresponding author: No
Impact source: ISI
Category: HEMATOLOGY
Impact index in year of publication: 2.465
Journal in the top 25%: Yes
Position of publication: 39
No. of journals in the cat.: 70

26 Isaac Jardin; Jose J Lopez; Raquel Diez; Jose Sanchez Collado; Carlos Cantonero; Letizia Albarran; Geoffrey E. Woodard; Pedro C. Redondo; Ginés M. Salido; Tarik Smani; Juan Antonio Rosado. TRPs in Pain Sensation. Frontiers in Physiology. 8, pp. 392. Frontiers Research Foundation, 2017. Available on-line at: <doi: 10.3389/fphys.2017.00392.>. ISSN 1664-042X

Type of production: Scientific paper
Format: Journal
Position of signature: 11
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 11
Corresponding author: Yes
Impact source: ISI
Category: PHYSIOLOGY
Impact index in year of publication: 4.134
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 84

27 Mohammed El Haouari; Juan A. Rosado. Medicinal Plants with Antiplatelet Activity.PHYTOTHERAPY RESEARCH. 30 - 7, pp. 1059 - 1071. NUEVA YORK(United States of America): John Wiley & Sons, Ltd, 2016. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S016748891500350X doi: 10.1002/ptr.5619>. ISSN 1099-1573

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 2.66
Journal in the top 25%: Yes
Source of citations: WOS
Citations: 0

Relevant results: Blood platelets play an essential role in the hemostasis and wound-healing processes. However, platelet hyperactivity is associated to the development and the complications of several cardiovascular diseases. In this sense, the search for potent and safer antiplatelet agents is of great interest. This article provides an overview of experimental studies performed on medicinal plants with antiplatelet activity available through literature with particular emphasis on the bioactive constituents, the parts used, and the various platelet signaling pathways modulated by medicinal plants. From this review, it was suggested that medicinal plants with antiplatelet activity mainly belong to the family of Asteraceae, Rutaceae, Fabaceae, Lamiaceae, Zygophyllaceae, Rhamnaceae, Liliaceae, and Zingiberaceae. The antiplatelet effect is attributed to the presence of bioactive compounds such as polyphenols, flavonoids, coumarins, terpenoids, and other substances which correct platelet abnormalities by interfering with different platelet signalization pathways including inhibition of the ADP pathway, suppression of TXA2 formation, reduction of intracellular Ca2+ mobilization, and phosphoinositide breakdown, among others. The identification and/or structure modification of the plant constituents and the understanding of their action mechanisms will be helpful in the development of new antiplatelet agents based on medicinal plants which could contribute to the prevention of thromboembolic-related disorders by inhibiting platelet aggregation

28 Jose Javier Lopez Barba; Letizia Albarrán Alonso; Luis Gómez Gordo; Tarik Smani Hajami; Gines Maria Salido Ruiz; Juan A. Rosado. Molecular modulators of store-operated calcium entry.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1863, pp. 2037 - 2043. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2016. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S016748891500350X doi: 10.1016/j.bbamcr.2016.04.024.>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Three decades ago, store-operated Ca2+ entry (SOCE) was identified as a unique mechanism for Ca2+ entry through plasma membrane (PM) Ca2+-permeable channels modulated by the intracellular Ca2+ stores, mainly the endoplasmic reticulum (ER). Extensive analysis of the communication between the ER and the PM leads to the identification of the protein STIM1 as the ER-Ca2+ sensor that gates the Ca2+ channels in the PM. Further analysis on the biophysical, electrophysiological and biochemical properties of STIM1-dependent Ca2+ channels has revealed the presence of a highly Ca2+-selective channel termed Ca2+ release-activated Ca2+ channel (CRAC), consisting of Orai1 subunits, and non-selective cation channels named store-operated channels (SOC), including both Orai1 and TRPC channel subunits. Since the identification of the key elements of CRAC and SOC channels a number of intracellular modulators have been reported to play essential roles in the stabilization of STIM-Orai interactions, collaboration with STIM1 conformational changes or mediating slow Ca2+-dependent inactivation. Here, we review our current understanding of some of the key modulators of STIM1-Orai1 interaction, including the proteins CRACR2A, STIMATE, SARAF, septins, golli and ORMDL3.

29 Javier Ávila Medina; Eva Calderón Sánchez; P González Rodríguez; Francisco Monje Quiroga; Juan A. Rosado; Antonio Castellano; Antonio Ordoñez; Tarik Smani. Orai1 and TRPC1 Proteins Co-localize with CaV1.2 Channels to Form a Signal Complex in Vascular Smooth Muscle Cells.JOURNAL OF BIOLOGICAL CHEMISTRY. 291 - 40, pp. 21148 - 21159. ROCKVILLE PIKE, BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 2016. Available on-line at: <DOI: 10.1074/jbc.M115.704940>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 8
Corresponding author: No
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.573
Journal in the top 25%: Yes
Position of publication: 61
No. of journals in the cat.: 290

Source of citations: WOS
Citations: 0

Relevant results: Voltage-dependent CaV1.2 L-type Ca2+ channels (LTCC) are the main route for calcium entry in vascular smooth muscle cells (VSMC). Several studies have also determined the relevant role of store-operated Ca2+ channels (SOCC) in vascular tone regulation. Nevertheless, the role of Orai1- and TRPC1-dependent SOCC in vascular tone regulation and their possible interaction with CaV1.2 are still unknown. The current study sought to characterize the co-activation of SOCC and LTCC upon stimulation by agonists, and to determine the possible crosstalk between Orai1, TRPC1, and CaV1.2. Aorta rings and isolated VSMC obtained from wild type or smooth muscle-selective conditional CaV1.2 knock-out (CaV1.2KO) mice were used to study vascular contractility, intracellular Ca2+ mobilization, and distribution of ion channels. We found that serotonin (5-HT) or store depletion with thapsigargin (TG) enhanced intracellular free Ca2+ concentration ([Ca2+]i) and stimulated aorta contraction. These responses were sensitive to LTCC and SOCC inhibitors. Also, 5-HT- and TG-induced responses were significantly attenuated in CaV1.2KO mice. Furthermore, hyperpolarization induced with cromakalim or valinomycin significantly reduced both 5-HT and TG responses, whereas these responses were enhanced with LTCC agonist Bay-K-8644. Interestingly, in situ proximity ligation assay revealed that CaV1.2 interacts with Orai1 and TRPC1 in untreated VSMC. These interactions enhanced significantly after stimulation of cells with 5-HT and TG. Therefore, these data indicate for the first time a functional interaction between Orai1, TRPC1, and CaV1.2 channels in VSMC, confirming that upon agonist stimulation, vessel contraction involves Ca2+ entry due to co-activation of Orai1- and TRPC1-dependent SOCC and LTCC.

30 Letizia Albarrán Alonso; Jose Javier Lopez; Luis Gomez Gordo; Gines María Salido Ruiz; Juan A. Rosado. SARAF modulates TRPC1, but not TRPC6, channel function in a STIM1-independent manner.BIOCHEMICAL JOURNAL. 473 - 20, pp. 3581 - 3595. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 2016. Available on-line at: <DOI: 10.1042/BCJ20160348>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.396
Journal in the top 25%: Yes
Position of publication: 67
No. of journals in the cat.: 290

Source of citations: WOS
Citations: 0

Relevant results: Canonical transient receptor potential-1 (TRPC1) is an almost ubiquitously expressed channel that plays a relevant role in cell function. As other TRPC members, TRPC1 forms receptor-operated cation channels that exhibit both STIM1-dependent and store-independent behaviour. The STIM1 inhibitor SARAF (for store-operated Ca2+ entry (SOCE)-associated regulatory factor) modulates SOCE by interaction with the STIM1 region responsible for Orai1 activation (SOAR). Furthermore, SARAF modulates Ca2+ entry through the arachidonate-regulated Ca2+ (ARC) channels, consisting of Orai1 and Orai3 heteropentamers and plasma membrane-resident STIM1. While a role for STIM1-Orai1-mediated signals has been demonstrated, the possible role of SARAF in TRPC1 function remains unknown. Here, we provide evidence for the interaction of SARAF with TRPC1, independently of STIM1 both in STIM1-deficient NG115-401L cells and SH-SY5Y cells endogenously expressing STIM1. Silencing of SARAF expression in STIM1-deficient cells demonstrated that SARAF plays a negative regulatory role in TRPC1-mediated Ca2+ entry. The interaction of SARAF with TRPC1 in STIM1-deficient cells, as well as with the TRPC1 pool not associated with STIM1 in STIM1-expressing cells was enhanced by stimulation with the physiological agonist ATP. In contrast with TRPC1, we found that the interaction between SARAF and TRPC6 was constitutive rather than inducible by agonist stimulation. Furthermore, we found that SARAF expression silencing was without effect on Ca2+ entry evoked by agonists in TRPC6 overexpressing cells, as well as in Ca2+ influx evoked by the TRPC6 activator Hyp9. These findings provide evidence for a new regulator of TRPC1 channel function and highlight the relevance of SARAF in intracellular Ca2+ homeostasis.

31 Juan A. Rosado; Raquel Diez; Tarik Smani; Isaac Jardin Polo. STIM and Orai1 variants in store-operated calcium entry. FRONTIERS IN PHARMACOLOGY. 6, pp. 325. Lausana(Switzerland): FRONTIERS RESEARCH FOUNDATION, 2016. Available on-line at: <doi: 10.3389/fphar.2015.00325.>. ISSN 1663-9812

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Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 3.802
Journal in the top 25%: Yes
Position of publication: 51
No. of journals in the cat.: 255
Source of citations: WOS
Citations: 0

Relevant results: Store-operated Ca2+ is an ubiquitous mechanism for Ca2+ entry in eukaryotic cells. This route for Ca2+ influx is regulated by the filling state of the intracellular Ca2+ stores communicated to the plasma membrane channels by the proteins of the STIM family, STIM1 and STIM2. Store-dependent, STIM1-modulated, channels include the Ca2+ release-activated Ca2+ (CRAC) channels, comprised of subunits of Orai proteins, as well as the store-operated Ca2+ (SOC) channels, involving Orai1 and members of the canonical transient receptor potential (TRPC) family of proteins. Recent studies have revealed the expression of splice variants of STIM1, STIM2 and Orai1 in different cell types. While certain variants are ubiquitously expressed, others, such as STIM1L, show a more restricted expression. The splice variants for STIM and Orai1 proteins exhibit significant functional differences and reveal that alternative splicing enhances the functional diversity of STIM1, STIM2 and Orai1 genes to modulate the dynamics of Ca2+ signals.

32 Isaac Jardin Polo; Juan A. Rosado. STIM and calcium channel complexes in cancer. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1863, pp. 1418 - 1426. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2016. Available on-line at: <doi: 10.1016/j.bbamcr.2015.10.003.>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: The ion Ca2+ is a ubiquitous second messenger that mediates a variety of cellular functions. Dysfunction of the mechanisms involved in Ca2+ homeostasis underlies a number of pathological processes, including cancer. Store-operated Ca2+ entry (SOCE) is a major mechanism for Ca2+ entry modulated by the intracellular Ca2+ stores. The Ca2 +-selective store-operated current (ICRAC) is mediated by the endoplasmic reticulum (ER) Ca2+ sensor STIM1 and the store-operated Ca2+ (SOC) channel Orai1, while other non-selective cation currents (ISOC) involves the participation of members of the canonical transient receptor potential (TRPC) channel family, including TRPC1. Distinct isoforms of the key components of SOCE have been described in mammalian cells, STIM1 and 2, Orai1-3 and TRPC1-7. In cancer cells, SOCE has been reported to play an important role in cell cycle progression and proliferation, migration, metastasis and evasion of apoptosis. Changes in the expression of the key elements of SOCE and Ca2+ homeostasis remodeling have been account to play important roles in the phenotypic changes observed in transformed cells. Despite there are differences in the expression level of the molecular components of SOCE, as well as in the relevance of the STIM, Orai and TRPC isoforms in SOCE and tumorigenesis among cancer cell types, there is a body of evidence supporting an important role for SOCE underlying the phenotypic modifications of cancer cells that propose STIM and the SOC channels as suitable candidate targets for future prognostic or therapeutic strategies. This article is part of a Special Issue entitled: Calcium and Cell Fate edited by Jacques Haiech, Claus Heizmann and Joachim Krebs.

33 Juan A. Rosado. Sigma-1 receptors: a new pathway for the modulation of store-operated calcium entry. BIOCHEMICAL JOURNAL. 473 - 3, pp. 9 - 10. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 2016. Available on-line at: <doi: 10.1042/BJ20151144>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 1
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.396
Journal in the top 25%: Yes
Position of publication: 67
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 0

Relevant results: Store-operated Ca2+ entry (SOCE) is a ubiquitous mechanism for Ca2+ influx in animal cells. In this issue of Biochemical Journal, Brailoiu and colleagues report that cocaine attenuates SOCE in rat brain microvascular endothelial cells, via a mechanism that requires the expression and activation of the sigma-1 receptor, a chaperone located in the endoplasmic reticulum-mitochondrion interface that modulates intracellular Ca2+ homeostasis and cell survival. This study envisages a pathway through which cocaine modulates endothelial function via regulation of SOCE. The regulation of SOCE by sigma-1 receptors provides a novel an important pathway in Ca2+ signalling.

34 Letizia Albarrán Alonso; Jose Javier López Barba; Geoffrey E. Woodard; Ginés M. Salido Ruiz; Juan A. Rosado. Store-operated Ca2+ entry-associated regulatory factor (SARAF) plays an important role in the regulation of arachidonate-regulated Ca2+ (ARC) channels. JOURNAL OF BIOLOGICAL CHEMISTRY. 291, pp. 6982 - 6988. ROCKVILLE PIKE, BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 2016. Available on-line at: <DOI: 10.1074/jbc.M115.704940>. ISSN 0021-9258

Type of production: Scientific paper
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Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.573
Journal in the top 25%: Yes
Position of publication: 61
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 0

Relevant results: The store-operated Ca2+ entry associated regulatory factor (SARAF) has recently been identified as a STIM1 regulatory protein that facilitates slow Ca2+-dependent inactivation of storeoperated Ca2+ entry (SOCE). Both the store-operated channels and the storeindependent arachidonate-regulated Ca2+ (ARC) channels are regulated by STIM1. In the present study, we show that, in addition to its location in the endoplasmic reticulum, SARAF is constitutively expressed in the plasma membrane, where it can interact with plasma membrane (PM)-resident ARC forming subunits in the neuroblastoma cell line SH-SY5Y. Using siRNA-based and overexpression approaches we report that SARAF negatively regulates store-independent Ca2+ entry via the ARC channels. Arachidonic acid (AA) increases the association of PM-resident SARAF with Orai1. Finally, our results indicate that SARAF modulates the ability of AA to promote cell survival in neuroblastoma cells. In addition to revealing new insight into the biology of ARC channels in neuroblastoma cells, these findings provide evidence for an unprecedented location of SARAF in the plasma membrane.

35 Esther Lopez; M Del Carmen Ortega-Liébana; Sofia Salido; Gines M. Salido; Joaquin Altarejos; Juan A. Rosado; Pedro Redondo. Evaluation of the antiaggregant activity of ascorbyl phenolic esters with antioxidant properties.JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 71, pp. 415 - 434. AMSTERDAM, Noord-Holland(Holland): SPRINGER, 2015. Available on-line at: <http://link.springer.com/article/10.1007%2Fs13105-015-0421-0 doi: 10.1007/s13105-015-0421-0>. ISSN 1138-7548

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Corresponding author: No
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 1.969
Journal in the top 25%: No
Position of publication: 51
No. of journals in the cat.: 83
Source of citations: WOS
Citations: 0

Relevant results: Beneficial effects of the antioxidant L-ascorbic acid (Asc) in human health are well known. Its particular role in hemostasis deserves further consideration, since it has been described a dose-dependent effect of Asc in platelet activity. Contrary, it has been demonstrated that phenolic compounds have inhibitory effects on platelet aggregation stimulated by the physiological agonist thrombin (Thr). Here, we have evaluated the actions of three synthetic phenolic esters of Asc: L-ascorbyl 6-protocatechuate (Prot Asc), L-ascorbyl 6-gallate (Gal Asc), and L-ascorbyl 6-caffeate (Caf Asc). All these Asc derivatives exhibited greater radical scavenging activity than Asc, and in experiments using human platelets from healthy subjects, they do not evoke changes in platelet viability upon their administration. Nevertheless, these compounds altered platelet calcium homeostasis in response to Thr, although Prot Asc induced a smaller effect than Gal Asc, Caf Asc, and Asc. As a consequence, platelet aggregation was also impaired by these compounds, reporting Prot Asc and Caf Asc a weaker antiaggregant action than Gal Asc and Asc. Treatments with Gal Asc and Caf Asc altered in larger extent the phosphorylation pattern of pp60Src and mammalian target of rapamycin (mTOR) evoked by stimulating human platelets with Thr. Summarizing, Prot Asc is the ascorbyl phenolic ester with the strongest antioxidant properties and weakest antiaggregant actions, and its use as antioxidant may be safer than the rest of derivatives in order to prevent thrombotic alteration in patients that need treatment with antioxidant therapies.

36 Esther Lopez Nieto; Alejandro Berna Erro; Gines M Salido Ruiz; Juan A. Rosado; Pedro C Redondo Liberal. FKBP25 and FKBP38 regulate non-capacitative calcium entry through TRPC6.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1853 - 10, pp. 2684 - 2696. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2015. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488915002608 doi: 10.1016/j.bbamcr.2015.07.023>. ISSN 0167-4889

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Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5
Corresponding author: No
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Non-capacitative calcium entry (NCCE) contributes to cell activation in response to the occupation of G protein-coupled membrane receptors. Thrombin administration to platelets evokes the synthesis of diacylglycerol downstream of PAR receptor activation. Diacylglycerol evokes NCCE through activating TRPC3 and TRPC6 in human platelets. Although it is known that immunophilins interact with TRPCs, the role of immunophilins in the regulation of NCCE remains unknown. Platelet incubation with FK506, an immunophilin antagonist, reduced OAG-evoked NCCE in a concentration-dependent manner, an effect that was independent on the inactivation of calcineurin (CaN). FK506 was unable to reduce NCCE evoked by OAG in platelets from TRPC6-/- mice. In HEK-293 cells overexpressing TRPC6, currents through TRPC6 were altered in the presence of FK506. We have found interaction between FKBP38 and other FKBPs, like FKBP25, FKBP12, and FKBP52 that were not affected by FK506, as well as with calmodulin (CaM). FK506 modified the pattern of association between FKBP25 and TRPCs as well as impaired OAG-evoked TRPC3 and TRPC6 coupling in both human and mouse platelets. By performing biotinylation experiments we have elucidated that FKBP25 and FKBP38 might be found at different cellular location, the plasma membrane and the already described intracellular locations. Finally, FKBP25 and FKBP38 silencing significantly inhibits OAG-evoked NCCE in MEG-01 and HEK293 cells, while overexpression of

FKBP38 does not modify NCCE in HEK293 cells. All together, these findings provide strong evidence for a role of immunophilins, including FKBP25 and FKBP38, in NCCE mediated by TRPC6.

37 Tarik Smani Hajami; R Skryma; G Shapovalov; Natalia Prevarskaya; Juan A. Rosado. Functional and physiopathological implications of TRP channels. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1853 - 8, pp. 1772 - 1782. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2015. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912003631 doi: 10.1016/j.bbamcr.2015.04.016>. ISSN 0167-4889

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Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Transient Receptor Potential (TRP) channel proteins are a diverse family of proteins that are expressed in many organisms, tissues and cell types. TRP channels respond to a variety of stimuli, including light, mechanical or chemical stimuli, temperature, pH or osmolarity. In addition, several TRP family members have been identified as downstream molecules in the G protein-coupled receptor signaling pathway. TRP proteins are involved in a variety of cell functions both in non-excitable and excitable cells due to their diverse permeability to cations and their ability to modulate intracellular Ca2+ signaling. Emerging evidence suggests that TRP channel dysfunction significantly contributes to the physiopathology of a number of diseases, including cardiovascular, neurological, metabolic or neoplastic disorders. This review focuses on the implication of TRP proteins in the pathogenesis of some of the most prevalent disorders in human. We summarize the current findings regarding the role of TRP proteins in the development of cardiovascular disease, diabetes mellitus as well as diabetic complications, and tumorigenesis and present TRP proteins as targets of potential diagnostic and therapeutic strategies.

38 Natalia Dionisio Flores; Tarik Smani Hajami; Geoffrey Woodard; Antonio Castellano; Gines M. Salido; Juan A. Rosado. Homer proteins mediate the interaction between STIM1 and Cav1.2 channels.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1853 - 5, pp. 1145 - 1153. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2015. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912003631 doi: 10.1016/j.bbamcr.2015.02.014.>. ISSN 0167-4889

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Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
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Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: STIM1 is a ubiquitous Ca2+ sensor of the intracellular, agonist-sensitive, Ca2+ stores that communicates the filling state of the Ca2+ compartments to plasma membrane store-operated Ca2+ (SOC) channels. STIM1 has been presented as a point of convergence between store-operated and voltage-operated Ca2+ influx, both inducing activation of SOC channels while suppressing Cav1.2 channels. Here we report that Homer proteins play a relevant role in the communication between STIM1 and Cav1.2 channels. HEK-293 cells transiently expressing Cav1.2 channel subunits α1, β2 and α2δ-1 exhibited a significant Ca2+ entry upon treatment with a high concentration of KCl. In Cav1.2-expressing cells, treatment with thapsigargin (TG), to induce passive discharge of the intracellular Ca2+ stores, resulted in Ca2+ influx that was significantly greater than in

cells not expressing Cav1.2 channels, a difference that was abolished by nifedipine and diltiazem. Treatment with TG induces co-immunoprecipitation of Homer1 with STIM1 and the Cav1.2 α1 subunit. Impairment of Homer function by introduction of the synthetic PPKKFR peptide into cells, which emulates the proline-rich sequences of the PPXXF motif, or using siRNA Homer1, reduced the association of STIM1 and the Cav1.2 α1 subunit. These findings indicate that Homer is important for the association between both proteins. Finally, treatment with siRNA Homer1 or the PPKKFR peptide enhanced the nifedipine-sensitive component of TG response in Cav1.2-expressing cells. Altogether, these findings provide evidence for a new role of Homer1 supporting the regulation of Cav1.2 channels by STIM1.

39 Esther Lopez Nieto; Nuria Bermejo Vega; Alejandro Berna Erro; Nieves Alonso; Gines M Salido Ruiz; Pedro C Redondo Liberal; Juan A. Rosado. Relationship between calcium mobilization and platelet α- and δ-granule secretion. A role for TRPC6 in thrombin-evoked δ-granule exocytosis.ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 585, pp. 75 - 81. Nueva York(United States of America): ELSEVIER, 2015. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986115300631 doi: 10.1016/j.abb.2015.09.012>. ISSN 0003-9861

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Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 3.017
Journal in the top 25%: No
Position of publication: 28
No. of journals in the cat.: 73
Source of citations: WOS
Citations: 0

Relevant results: Changes in cytosolic Ca(2+) concentration ([Ca(2+)]c) regulate granule secretion in different cell types. Thrombin activates PAR1 and PAR4 receptors and promotes release of Ca(2+) from distinct intracellular stores, which, in turn, activates store-operated Ca(2+) entry (SOCE). A crucial step during platelet function is the release of physiological agonists stored in secretory granules to the extracellular compartment during activation. We aim to study the role of Ca(2+) mobilization from the extracellular compartment or from different intracellular stores in platelet granule secretion. By using flow cytometry, we have found that α- and δ-granules are secreted in thrombin-stimulated platelets in the absence of extracellular Ca(2+), and in a concentration-dependent manner. Our findings show that thrombin-stimulated granule secretion depends on Ca(2+) mobilization from intracellular stores. Analysis of the kinetics of granule secretion reveals that platelet stimulation with thrombin results in rapid release of α-granules which precedes the secretion of δ-granules. Incubation of platelets with a specific antibody, which recognizes the extracellular amino acid sequence 573-586 of TRPC6, inhibited thrombin-evoked δ-granule exocytosis. Our results indicate that the mechanisms underlying thrombin-induced α- and δ-granule secretion show differences in dependency on Ca(2+) mobilization.

40 Esther Lopez Nieto; Alejandro Berna Erro; Jose Javier Lopez Barba; Maria Purificación Granados Conejero; Nuria Bermejo Vega; Jose M Brull Sabate; Gines M Salido Ruiz; Juan A. Rosado; Pedro C Redondo Liberal. Role of mTOR1 and mTOR2 complexes in MEG-01 cell physiology.THROMBOSIS AND HAEMOSTASIS. 114 - 5, pp. 969 - 981. Stuttgart(Germany): SCHATTAUER, 2015. Available on-line at: <http://th.schattauer.de/en/contents/archive/issue/2275/manuscript/24637.html doi: 10.1160/TH14-09-0727>. ISSN 0340-6245

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Format: Journal
Position of signature: 8
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 9
Corresponding author: No
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 4.984
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 60
Source of citations: WOS
Citations: 0

Relevant results: The function of the mammalian target of rapamycin (mTOR) is upregulated in response to cell stimulation with growing and differentiating factors. Active mTOR controls cell proliferation, differentiation and death. Since mTOR associates with different proteins to form two functional macromolecular complexes, we aimed to investigate the role of the mTOR1 and mTOR2 complexes in MEG-01 cell physiology in response to thrombopoietin (TPO). By using mTOR antagonists and overexpressing FKBP38, we have explored the role of both mTOR complexes in proliferation, apoptosis, maturation-like mechanisms, endoplasmic reticulum-stress and the intracellular location of both active mTOR complexes during MEG-01 cell stimulation with TPO. The results demonstrate that mTOR1 and mTOR2 complexes play different roles in the physiology of MEG-01 cells and in the maturation-like mechanisms; hence, these findings might help to understand the mechanism underlying generation of platelets.

41 Tarik Smani; Natalia Dionisio; Jose Javier Lopez; Alejandro Berna Erro; Juan Antonio Rosado. CYTOSKELETAL AND SCAFFOLDING PROTEINS AS STRUCTURAL AND FUNCTIONAL DETERMINANTS OF TRP CHANNELS. BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. 1838 - 2, pp. 658 - 664. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 2014. Available on-line at: <doi: 10.1016/j.bbamem.2013.01.009>. ISSN 0005-2736

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 3.431
Journal in the top 25%: No
Position of publication: 22
No. of journals in the cat.: 74

Relevant results: Transient receptor potential (TRP) channels are six transmembrane-spanning proteins, with variable selectivity for cations, that play a relevant role in intracellular Ca(2+) homeostasis. There is a large body of evidence that shows association of TRP channels with the actin cytoskeleton or even the microtubules and demonstrating the functional importance of this interaction for TRP channel function. Conversely, cation currents through TRP channels have also been found to modulate cytoskeleton rearrangements. The interplay between TRP channels and the cytoskeleton has been demonstrated to be essential for full activation of a variety of cellular functions. Furthermore, TRP channels have been reported to take part of macromolecular complexes including different signal transduction proteins. Scaffolding proteins play a relevant role in the association of TRP proteins with other signaling molecules into specific microdomains. Especially relevant are the roles of the Homer family members for the regulation of TRPC channel gating in mammals and INAD in the modulation of Drosophila TRP channels. This article is part of a Special Issue entitled: Reciprocal influences between cell cytoskeleton and membrane channels, receptors and transporters.

42 Letizia Albarran; Natalia Dionisio Flores; Esther Lopez Nieto; Gines M. Salido; Pedro Cosme Redondo Liberal; Juan A. Rosado. STIM1 regulates TRPC6 heteromultimerization and subcellular location.BIOCHEMICAL JOURNAL. 463 - 3, pp. 373 - 381. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 2014. Available on-line at: <http://www.biochemj.org/bj/445/0029/bj4450029.htm doi: 10.1042/BJ20140523>. ISSN 0264-6021

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Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.779
Journal in the top 25%: Yes
Position of publication: 61
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: STIM1 (stromal interaction molecule 1) regulates store-operated channels in the plasma membrane, but the regulation of TRPC (transient receptor potential canonical) heteromultimerization and location by STIM1 is poorly understood. STIM1 is a single transmembrane protein that communicates the filling state of the endoplasmic reticulum to store-operated channels. STIM1 has been reported to regulate the activity of all of the TRPC family members, except TRPC7. TRPC6 has been predominantly associated to second

messenger-activated Ca2+ entry pathways. In the present paper we report that STIM1 regulates the expression of TRPC6 in the plasma membrane and evokes translocation of this channel to the endoplasmic reticulum. Attenuation of TRPC6 expression in the plasma membrane resulted in a reduction in the association of this channel with TRPC1 and TRPC3. We have found that expression of TRPC6 in the endoplasmic reticulum results in an increase in the passive Ca2+ efflux and basal cytosolic Ca2+ concentration, but not in the ability of cells to accumulate Ca2+ into the endoplasmic reticulum. We propose a novel mechanism for the regulation of TRPC6 channel location and function by STIM1, probably as a mechanism to modulate second messenger-operated Ca2+ entry while potentiating store-operated Ca2+ influx.

43 Alejandro Berna Erro; Leticia Albarran; Natalia Dionisio; Nieves Alonso; Luis Gomez; Pedro Cosme Redondo; Gines M. Salido; Juan Antonio Rosado. THE CANONICAL TRANSIENT RECEPTOR POTENTIAL 6 (TRPC6) CHANNEL IS SENSITIVE TO EXTRACELLULAR PH IN MOUSE PLATELETS. BLOOD CELLS, MOLECULES AND DISEASES. 52 - 2-3, pp. 108 - 115. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 2014. Available on-line at: <doi: 10.1016/j.bcmd.2013.08.007>. ISSN 1079-9796

Type of production: Scientific paper
Format: Journal
Position of signature: 8
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 2.331
Journal in the top 25%: No
Position of publication: 39
No. of journals in the cat.: 68

Relevant results: The canonical transient receptor potential-6 (TRPC6) is a receptor-activated non-selective Ca2+ channel regulated by a variety of modulators such as diacylglycerol, Ca2+/calmodulin or phosphorylation. The present study is aimed to investigate whether different situations, such as acidic pH, exposure to reactive oxygen species (ROS) or hypoxic-like conditions modulate TRPC6 channel function. Here we show normal aggregation and Ca2+ mobilization stimulated by thrombin in TRPC6 KO platelets; however, OAG (1-oleoyl-2-acetyl-sn-glycerol)-evoked Ca2+ entry was attenuated in the absence of TRPC6. Exposure of mouse platelets to acidic pH resulted in abolishment of thrombin-evoked aggregation and attenuated platelet aggregation induced by thapsigargin (TG) or OAG. OAG-induced both Ca2+ entry and platelet aggregation were greatly attenuated in cells expressing TRPC6 channels. Exposure of platelets to H2O2 or deferoxamine did not clearly alter thrombin, TG or OAG-induced platelet aggregation. Our results indicate that TRPC6 is sensitive to acidic pH but not to exposure to ROS or hypoxic-like conditions, which might be involved in the pathogenesis of the altered platelet responsiveness to DAG-generating agonists in disorders associated to acidic pH.

44 Stewart O. Sage; Garvin E Jarvis; Isaac Jardin; Juan Antonio Rosado; Alan G. S. Harper. THE TRPV1 ION CHANNEL IS EXPRESSED IN HUMAN BUT NOT IN MOUSE PLATELETS. PLATELETS. 25 - 5, pp. 390 - 392. Londres(United Kingdom): INFORMA HEALTHCARE, 2014. Available on-line at: <doi: 10.3109/09537104.2013.777952>. ISSN 0953-7104

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 2.627
Journal in the top 25%: No
Position of publication: 29
No. of journals in the cat.: 68

Relevant results: Our data indicate that TRPV1 is expressed and is functional in human but not mouse platelets. Recent transcriptome profiles of murine and human platelets have demonstrated low levels of TRPV1 mRNA in human platelets, whilst it appeared to be absent from murine platelets, supporting our observations. The absence of TRPV1 from murine platelets adds to a growing body of evidence of differences in both the proteomes and transcriptomes of mouse and human platelets. Thus while platelets from genetically-modified mice might provide a useful tool for an initial evaluation of the role of a variety of proteins in platelet function, caution must be exercised when extrapolating from mouse studies to consider human platelet function.

45 Letizia Albarrán Alonso; Alejandro Berna Erro; Natalia Dionisio Flores; Pedro Cosme Redondo Liberal; Esther Lopez; Jose Javier Lopez Barba; Gines M. Salido; JM Brull Sabate; Juan A. Rosado. TRPC6 participates in the regulation of cytosolic basal calcium concentration in murine resting

platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1843 - 4, pp. 789 - 796. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2014. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912003631 doi: 10.1016/j.bbamcr.2014.01.014>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 9
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Cytosolic-free Ca(2+) plays a crucial role in blood platelet function and is essential for thrombosis and hemostasis. Therefore, cytosolic-free Ca(2+) concentration is tightly regulated in this cell. TRPC6 is expressed in platelets, and an important role for this Ca(2+) channel in Ca(2+) homeostasis has been reported in other cell types. The aim of this work is to study the function of TRPC6 in platelet Ca(2+) homeostasis. The absence of TRPC6 resulted in an 18.73% decreased basal [Ca(2+)]c in resting platelets as compared to control cells. Further analysis confirmed a similar Ca(2+) accumulation in wild-type and TRPC6-deficient mice; however, passive Ca(2+) leak rates from agonist-sensitive intracellular stores were significantly decreased in TRPC6-deficient platelets. Biotinylation studies indicated the presence of an intracellular TRPC6 population, and subcellular fractionation indicated their presence on endoplasmic reticulum membranes. Moreover, the presence of intracellular calcium release in platelets stimulated with 1-oleoyl-2-acetyl-sn-glycerol further suggested a functional TRPC6 population located on the intracellular membranes surrounding calcium stores. However, coimmunoprecipitation assay confirmed the absence of STIM1-TRPC6 interactions in resting conditions. This findings together with the absence of extracellular Mn(2+) entry in resting wild-type platelets indicate that the plasma membrane TRPC6 fraction does not play a significant role in the maintenance of basal [Ca(2+)]c in mouse platelets. Our results suggest an active participation of the intracellular TRPC6 fraction as a regulator of basal [Ca(2+)]c, controlling the passive Ca(2+) leak rate from agonist-sensitive intracellular Ca(2+) stores in resting platelets.

46 Esther Lopez; Alejandro Berna Erro; Gines M. Salido; Juan A. Rosado; Pedro Cosme Redondo Liberal. FKBP52 is involved in the regulation of SOCE channels in the human platelets and MEG 01 cells.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1833 - 3, pp. 652 - 662. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2013. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912003631 doi: 10.1016/j.bbamcr.2012.11.029>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Immunophilins are FK506-binding proteins that have been involved in the regulation of calcium homeostasis, either by modulating Ca2 + channels located in the plasma membrane or in the rough endoplasmic reticulum (RE). We have investigated whether immunophilins would participate in the regulation of stored-operated Ca2 + entry (SOCE) in human platelets and MEG 01. Both cell types were loaded with fura-2 for determining cytosolic calcium concentration changes ([Ca2 +]c), or stimulated and fixed to evaluate the protein interaction profile by performing immunoprecipitation and western blotting. We have found that incubation of platelets with FK506 increases Ca2 + mobilization. Thapsigargin (TG)-evoked, Thr-evoked SOCE and TG-evoked Mn2 + entry resulted in significant reduction by treatment of platelets with immunophilin antagonists. We confirmed by immunoprecipitation that immunophilins interact with transient receptor potential channel 1 (TRPC1) and

Orai1 in human platelets. FK506 and rapamycin reduced the association between TRPC1 and Orai1 with FK506 binding protein (52) (FKBP52) in human platelets, and between TRPC1 and the type II IP3R, which association is known to be crucial for the maintenance of SOCE in human platelets. FKBP52 role in SOCE activation was confirmed by silencing FKBP52 using SiRNA FKBP52 in MEG 01 as demonstrated by single cell configuration imaging technique. TRPC1 silencing and depletion of cell of TRPC1 and FKBP52 simultaneously, impair activation of SOCE evoked by TG in MEG 01. Finally, in MEG 01 incubated with FK506 we observed a reduction in TRPC1/FKBP52 coupling, and similarly, FKBP52 silencing reduced the association between IP3R type II and TRPC1 during SOCE. All together, these results demonstrate that immunophilins participate in the regulation of SOCE in human platelets.

47 Isaac Jardin; Jose Javier Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado. HOMER PROTEINS IN Ca2+ ENTRY. IUBMB LIFE. 65 - 6, pp. 497 - 504. MALDEN(United States of America): WILEY-BLACKWELL, 2013. Available on-line at: <doi: 10.1002/iub.1162>. ISSN 1521-6543

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 2.755
Journal in the top 25%: No
Position of publication: 154
No. of journals in the cat.: 291

Relevant results: The Homer family of proteins consists of three adaptor proteins, Homer1, Homer2 and Homer3, each with various isoforms. Homer1 family presents an EVH1 domain, a coiled-coil domain and two leucine zipper domains. Homer proteins regulate a number of Ca2+ -handling proteins, including transient receptor potential channels and other Ca2+-permeable channels, ionotropic and metabotropic glutamate receptors, shank scaffolding proteins or endoplasmic reticulum Ca2+ release channels. This present review article focuses on the association of Homer 1 proteins with Ca2+-handling proteins and their role on intracellular Ca2+-homeostasis.

48 Esther Lopez; Alejandro Berna Erro; Juan Manuel Hernandez Cruz; Gines M Salido; Pedro Cosme Redondo; Juan Antonio Rosado Dionisio. IMMUNOPHILINS ARE INVOLVED IN THE ALTERED PLATELET AGGREGATION OBSERVED IN PATIENTS WITH TYPE 2 DIABETES MELLITUS. CURRENT MEDICINAL CHEMISTRY. 20 - 14, pp. 1912 - 1921. Amsterdam(Holland): BENTHAM SCIENCE PUBL LTD, 2013. Available on-line at: <DOI : 10.2174/09298673113201400008>. ISSN 0929-8673

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: CHEMISTRY, MEDICINAL
Impact index in year of publication: 3.715
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 58

Relevant results: Background: Platelet hyperaggregability might contribute to vascular complications associated to type 2 diabetes mellitus (DM2). Experimental evidence supports a direct link between altered Ca2+ entry, a mechanism regulated by immunophilins, and hyperaggregability in platelets from DM2 patients. Objetives: We aimed to investigate whether altered immunophilin expression and function is involved in Ca2+ entry alterations shown in platelets from DM2 patients. Results: Inhibition of immunophilins by using tacrolimus (FK506) and sirolimus (rapamycin) reduced both Thr- and Tg-evoked Ca2+ entry in platelets from healthy donors and DM2 patients. Similarly, administration of immunophilin inhibitors reduced degranulation in platelets from both healthy and DM2 subjects. Nevertheless, the reduction evoked by immunophilin antagonists of alpha granule secretion in platelets from DM2 patients was greater than that observed for dense granules, while no were observed in platelets from healthy subjects. Additionally, FKBP52 and FKBP12 expression was found to be altered in platelets from DM2 patients compared to healthy subjects. Finally, a significant reduction in platelet function from healthy subjects and DM2 patients in the presence of immunophilin antagonists was observed, being this alteration more evident in platelets from DM2 patients. Conclusions: we suggest that, among other immunophilins, FKBP52 expression and function is altered in platelets from DM2 patients, contributing to the altered Ca2+ entry and hyperaggregability in these cells.

49 Esther Lopez; Alejandro Berna Erro; Nuria Bermejo; Jose M. Brull; R Martinez; G García-Pino; R Alvarado; Gines M Salido; Juan Antonio Rosado Dionisio; Juan José Cubero; Pedro Cosme Redondo. LONG-TERM RAPAMYCIN mTOR INHIBITORS ADMINISTRATION EVOKES ALTERED CALCIUM HOMEOSTASIS AND PLATELET DYSFUNCTION IN KIDNEY TRANSPLAT PATIENTS. JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 17 - 5, pp. 636 - 647. Londres(United Kingdom): WILEY-BLACKWELL, 2013. Available on-line at: <doi: 10.1111/jcmm.12044>. ISSN 1582-1838

Type of production: Scientific paper
Format: Journal
Position of signature: 9
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 3.698
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 124

Relevant results: The use of the mammal target of rapamycin (mTOR) inhibitors has been consolidated as the therapy of election for preventing graft rejection in kidney transplant patients, despite their immunosuppressive activity is less strong than anti-calcineurin agents like tacrolimus (FK506) and cyclosporine A (CsA). Furthermore, since mTOR is widely expressed, rapamycin is recommended in patients presenting neoplasia due to its antiproliferative actions. Hence, we have investigated whether rapamycin presents side effects in the physiology of other cell types different from leukocytes, such as platelets. Blood samples were drawn from healthy volunteers and kidney transplant patients long-term medicated with rapamycin: sirolimus and everolimus. Platelets were either loaded with fura-2 or directly stimulated, and immunoassayed or fixed with Laemmli's buffer in order to perform the subsequent analysis of platelet physiology. Our results indicate that rapamycin evokes a biphasic time-dependent alteration in calcium homeostasis and function in platelets from kidney transplant patients under rapamycin regime, as demonstrated by the reduction in granule secretion observed and subsequent impairment of platelet aggregation in these patients compared with healthy volunteers. Platelet count was also reduced in these patients, thus 41 % of patients presented thrombocytopenia. All together our results show that long-term administration of rapamycin to kidney transplant patients evokes alteration in platelet function.

50 Alejandro Berna Erro; Pedro Cosme Redondo; Esther Lopez; Leticia Albarran; Juan Antonio Rosado. MOLECULAR INTERPLAY BETWEEN PLATELETS AND THE VASCULAR WALL IN THROMBOSIS AND HEMOSTASIS.CURRENT VASCULAR PHARMACOLOGY. 11 - 4, pp. 409 - 430. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2013. Available on-line at: <DOI : 10.2174/1570161111311040006>. ISSN 1570-1611

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 2.908
Journal in the top 25%: No
Position of publication: 27
No. of journals in the cat.: 65

Relevant results: Hemostasis is an intrinsic property of the vascular system that prevents blood loss during accidental disruption of the vessel wall. Late mechanisms of hemostasis comprise vessel repair and wound healing. In contrast, the early mechanism of hemostasis comprises the quick formation of a blood cell plug, also known as thrombus, whose function is to seal the region of the vessel near the compromised surface or area. Despite the simplicity of the concept, the molecular mechanisms underlying early hemostasis are highly complex. The local rheological properties of the blood flow, the vascular region and the nature of the injury determine the mechanism of thrombogenesis. Components of the plasma, blood cells such as platelets and vascular endothelial cells are involved in thrombosis. This review focuses on platelet-vascular wall interactions during thrombosis and hemostasis and provides an overview of the main underlying molecular mechanisms.

51 Isaac Jardin; Natalia Dionisio; Jose Javier Lopez; Tarik Smani; Gines Maria Salido; Juan Antonio Rosado. PHARMACOLOGY OF TRP CHANNELS IN THE VASCULATURE. CURRENT VASCULAR PHARMACOLOGY. 11 - 4, pp. 480 - 489. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2013. Available on-line at: <DOI : 10.2174/1570161111311040011>. ISSN 1570-1611

Type of production: Scientific paper
Format: Journal

Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 2.908
Journal in the top 25%: No
Position of publication: 27
No. of journals in the cat.: 65

Relevant results: The TRP family of cation-permeable channels owes its name to a Drosophila TRP mutant with impaired vision due to transient rather than sustained receptor potential. Mammalian TRP channels can be grouped into 6 subfamilies, including TRPC, TRPM, TRPV, TRPA, TRPP and TRPML and a number of TRP family members have been identified in the vasculature. TRP channels play an important functional role in the vasculature as mediators of cation influx across the plasma membrane, thus contributing to a large number of processes such as vascular smooth muscle contraction and vascular pressure or the responses to oxidative stress, mechanical stimuli, heat and hypoxia-induced vascular remodelling. TRP channelopaties are involved in the pathogenesis of different disorders including hypertension and cardiomyopathy. A number of identified natural compounds and synthetic agents have been reported to modulate TRP function, and are the base for therapeutical strategies.

52 Leticia Albarran; Esther Lopez; Natalia Dionisio; Gines Maria Salido; Juan Antonio Rosado. THE MEMBRANE POTENTIAL MODULATES THROMBIN-STIMULATED CA2+ MOBILIZATION AND PLATELET AGGREGATION. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 538 - 2, pp. 130 - 137. NEW YORK(United States of America): ELSEVIER SCIENCES INC, 2013. Available on-line at: <doi: 10.1016/j.abb.2013.08.007>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 3.043
Journal in the top 25%: No
Position of publication: 29
No. of journals in the cat.: 74

Relevant results: G protein-coupled receptors can be directly modulated by changes in transmembrane voltage in different cell types. Here we show that, while changes in the membrane voltage itself do not induce detectable modifications in the cytosolic Ca2+ concentration, platelet stimulation with thrombin or the PAR-1 and PAR-4 agonist peptides SFLLRN and AYPGKF, respectively, results in Ca2+ release from intracellular stores that is sensitive to the membrane depolarisation. Direct activation of G proteins or phospholipase C by AlF4- and m-3M3FBS, respectively, leads to Ca2+ release that is insensitive to changes in the membrane potential. Thapsigargin-, as well as OAG-induced Ca2+ entry are affected by the membrane voltage, probably as a result of the modification in the driving force for Ca2+ influx; however, hyperpolarisation does not enhance thrombin- or OAG-evoked Ca2+ entry probably revealing the presence of a voltage-sensitive regulatory mechanism. Transmembrane voltage also modulates the activity of the plasma membrane Ca2+-ATPase (PMCA) most likely due to a decrease in the phosphotyrosine content of the pump. Thrombin-stimulated platelet aggregation is modulated by membrane depolarisation by a mechanism that is, at least partially, independent of Ca2+. These observations indicate that PAR-1 and PAR-4 receptors are modulated by the membrane voltage in human platelets.

53 Isaac Jardin; Natalia Dionisio; Irene Frischauf; Alejandro Berna Erro; Geoffrey Woodard; Gines Salido; Juan Antonio Rosado. THE POLYBASIC LYSINE-RICH DOMAIN OF PLASMA MEMBRANE-RESIDENT STIM1 IS ESSENTIAL FOR THE MODULATION OF STORE-OPERATED DIVALENT CATION ENTRY BY EXTRACELLULAR CALCIUM. CELLULAR SIGNALLING. 25 - 5, pp. 1328 - 1337. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 2013. Available on-line at: <doi: 10.1016/j.cellsig.2013.01.025>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.471
Journal in the top 25%: No
Position of publication: 63
No. of journals in the cat.: 185

Relevant results: STIM1 acts as an endoplasmic reticulum Ca2+ sensor that communicates the filling state of the intracellular stores to the store-operated channels. In addition, STIM1 is expressed in the plasma membrane, with the Ca2+ binding EF-hand motif facing the extracellular medium; however, its role sensing extracellular Ca2+ concentrations in store-operated Ca2+ entry (SOCE), as well as the underlying mechanism remain unclear. Here we report that divalent cation entry stimulated by thapsigargin (TG) is attenuated by extracellular Ca2+ in a concentration-dependent manner. Expression of the Ca2+-binding defective STIM1(D76A) mutant did not alter the surface expression of STIM1 but abolishes the regulation of divalent cation entry by extracellular Ca2+. Orai1 and TRPC1 have been shown to play a major role in SOCE. Expression of the STIM1(D76A) mutant did not alter Orai1 phosphoserine content. TRPC1 silencing significantly attenuated TG-induced Mn2+ entry. Expression of the STIM1(K684,685E) mutant impaired the association of plasma membrane STIM1 with TRPC1, as well as the regulation of TG-induced divalent cation entry by extracellular Ca2+, which suggests that TRPC1 might be involved in the regulation of divalent cation entry by extracellular Ca2+ mediated by plasma membrane-resident STIM1. Expression of the STIM1(D76A) or STIM1(K684,685E) mutants reduced store-operated divalent cation entry and resulted in loss of dependence on the extracellular Ca2+ concentration, providing evidence for a functional role of plasma membrane-resident STIM1 in the regulation of store-operated divalent cation entry, which at least involves the EF-hand motif and the C-terminal polybasic lysine-rich domain.

54 Letizia Albarrán; Jose Javier Lopez; Natalia Dionisio; Tarik Smani; Gines M. Salido; Juan A. Rosado. TRANSIENT RECEPTOR POTENTIAL ANKYRIN-1 (TRPA1) MODULATES STORE-OPERATED CA2+ ENTRY BY REGULATION OF STIM1-ORAI1 ASSOCIATION. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1833 - 12, pp. 3025 - 3034. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2013. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912001395 doi: 10.1016/j.bbamcr.2013.08.014>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.297
Journal in the top 25%: Yes
Position of publication: 52
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: TRPA1 is a non-selective Ca2+ permeable channel located in the plasma membrane that functions as a cellular sensor detecting mechanical, chemical and thermal stimuli, being a component of neuronal, epithelial, blood and smooth muscle tissues. TRPA1 has been shown to influence a broad range of physiological processes that involve Ca2+-dependent signaling pathways. Here we report that TRPA1 is expressed in MEG01 but not in platelets at the protein level. MEG01 cells maturation induced by PMA results in attenuation of TRPA1 protein expression and enhances thapsigargin-evoked Ca2+ entry without altering the release of Ca2+ from intracellular stores. Inhibition of TRPA1 by HC-030031 results in enhancement of both thrombin- and thapsigargin-stimulated Ca2+ entry. Co-immunoprecipitation experiments revealed that TRPA1 associates with STIM1, as well as Orai1, TRPC1 and TRPC6. Downregulation of TRPA1 expression by MEG01 maturation, as well as pharmacological inhibition of TRPA1 by HC-030031, result in enhancement of the association between STIM1 and Orai1. Altogether, these findings provide evidence for a new and interesting function of TRPA1 in cellular function associated to the regulation of agonist-induced Ca2+ entry by the modulation of STIM1/Orai1 interaction.

55 MARIA RODRIGUEZ MOYANO; IGNACIO DIAZ; NATALIA DIONISIO; XIAHONG ZHANG; JAVIER AVILA MEDINA; EVA SANCHEZ CALDERON; MOHAMMED TREBAK; Juan Antonio Rosado; ANTONIO ORDOÑEZ; TARIK SMANI. UROTENSIN-II PROMOTES VASCULAR SMOOTH MUSCLE CELL PROLIFERATION THROUGH STORE OPERATED CALCIUM ENTRY AND EGFR TRANSACTIVATION. CARDIOVASCULAR RESEARCH. 100 - 2, pp. 297 - 306. OXFORD(United Kingdom): OXFORD UNIVERSITY PRESS, 2013. Available on-line at: <doi: 10.1093/cvr/cvt196>. ISSN 0008-6363

Type of production: Scientific paper
Format: Journal
Position of signature: 8
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 10

Impact source: ISI

Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS

Impact index in year of publication: 5.808

Journal in the top 25%: Yes

Position of publication: 15

No. of journals in the cat.: 125

Relevant results: Urotensin-II (UII) is a vasoactive peptide that promotes vascular smooth muscle cells (VSMCs) proliferation and is involved in the pathogenesis of atherosclerosis, restenosis and vascular remodeling. This study aimed to determine the role of calcium (Ca2+)-dependent signaling and alternative signaling pathways in UII-evoked VSMCs proliferation focussing on store-operated Ca2+ entry (SOCE) and epithelium growth factor receptor (EGFR) transactivation.Methods and ResultsWe used primary cultures of VSMCs isolated form wistar rat aorta to investigate the effects of UII on intracellular Ca2+ mobilization, and proliferation determined by 5-bromo-2-deoxyuridine (BrdU) assay. We found that UII enhanced intracellular Ca2+ concentration ([Ca2+]i) which was significantly reduced by classical SOCE inhibitors and by knockdown of essential components of the SOCE such as STIM1, Orai1, or TRPC1. Moreover, UII activated a Gd3+-sensitive current with similar features of the Ca2+ release-activated Ca2+ current (ICRAC). Additionally, UII stimulated VSMCs proliferation and Ca2+/cAMP response element-binding protein (CREB) activation through SOCE pathway that involved STIM1, Orai1, and TRPC1. Co-immunoprecipitation experiments showed that UII promoted the association between Orai1 and STIM1, and between Orai1 and TRPC1. Moreover, we determined that epithelium growth factor receptor (EGFR) transactivation, extracellular signal-regulated kinase (ERK) and Ca2+/calmodulin-dependent kinase (CaMK) signaling pathways were involved in both UII-mediated Ca2+ influx, CREB activation and VSMCs proliferation. CONCLUSION: Our data show for the first time that UII-induced VSMCs proliferation and CREB activation requires a complex signaling pathway that involves on the one hand SOCE mediated by STIM1, Orai1 and TRPC1, and on the other hand EGFR, ERK, and CaMK activation

56 Alejandro Berna-Erro; Carmen Galan; Natalia Dionisio; Luis J. Gomez; Gines M. Salido; Juan A. Rosado. Capacitative and non-capacitative signaling complexes in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1823 - 8, pp. 1242 - 1251. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2012. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912001395>. ISSN 0167-4889

Type of production: Scientific paper

Format: Journal

Position of signature: 6

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.808

Journal in the top 25%: Yes

Position of publication: 60

No. of journals in the cat.: 290

Source of citations: WOS

Citations: 0

Relevant results: Discharge of the intracellular Ca(2+) stores activates Ca(2+) entry through store-operated channels (SOCs). Since the recent identification of STIM1 and STIM2, as well as the Orai1 homologs, Orai2 and Orai3, the protein complexes involved in Ca(2+) signaling needs re-evaluation in native cells. Using real time PCR combined with Western blotting we have found the expression of the three Orai isoforms, STIM1, STIM2 and different TRPCs in human platelets. Depletion of the intracellular Ca(2+) stores with thapsigargin, independently of changes in cytosolic Ca(2+) concentration, enhanced the formation of a signaling complex involving STIM1, STIM2, Orai1, Orai2 and TRPC1. Furthermore, platelet treatment with the dyacylglicerol analog 1-oleoyl-2-acetyl-sn-glycerol (OAG) resulted in specific association of Orai3 with TRPC3. Treatment of platelets with arachidonic acid enhanced the association between Orai1 and Orai3 in human platelets and overexpression of Orai1 and Orai3 in HEK293 cells increased arachidonic acid-induced Ca(2+) entry. These results indicate that Ca(2+) store depletion results in the formation of exclusive signaling complexes involving STIM proteins, as well as Orai1, Orai2 and TRPC1, but not Orai3, which seems to be involved in non-capacitative Ca(2+) influx in human platelets.

57 Esther Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. FKBP52 IS INVOLVED IN THE REGULATION OF SOCE CHANNELS IN THE HUMAN PLATELETS AND MEG 01 CELLS. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1833 - 3, pp. 652 - 662. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2012. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.808
Journal in the top 25%: Yes
Position of publication: 60
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 0
Source of citations: SCOPUS
Citations: 0

Relevant results: Immunophilins are FK506-binding proteins that have been involved in the regulation of calcium homeostasis, either by modulating Ca(2+) channels located in the plasma membrane or in the rough endoplasmic reticulum (RE). We have investigated whether Immunophilins would participate in the regulation of SOCE in human platelets and MEG 01. Both cell types were loaded with fura-2 for determining cytosolic calcium concentration changes ([Ca(2+)](c)), or stimulated and fixed to evaluate the proteins interaction profile by performing immunoprecipitation and Western blotting. We have found that incubation of platelets with FK506 increases Ca(2+) mobilization. TG-evoked, Thr-evoked SOCE and TG-evoked Mn(2+) entry resulted significantly reduced by treatment of platelets with Immunophilins antagonists. We confirmed by immunoprecipitation that Immunophilins interact with TRPC1 and Orai1 in human platelets. FK506 and rapamycin reduced the association between TRPC1 and Orai 1 with FKBP52 in human platelets, and between TRPC1 and the type II IP(3)R, which association is known to be crucial for the maintenance of SOCE in human platelets. FKBP52 role in SOCE activation was confirmed by silencing FKBP52 using SiRNA FKBP52 in MEG 01 as demonstrated by single cell configuration imaging technique. TRPC1 silencing and depletion of cell of TRPC1 and FKBP52 simultaneously, impair activation of SOCE evoked by TG in MEG 01. Finally, in MEG 01 incubated with FK506 we observed a reduction in TRPC1/FKBP52 coupling, and similarly, FKBP52 silencing reduced association between IP3R type II and TRPC1 during SOCE. All together, these results demonstrate that Immunophilins participate in the regulation of SOCE in human platelets.

58 Isaac Jardin; Letizia Albarran; Nuria Bermejo; Gines M. Salido; Juan A. Rosado. Homers regulate calcium entry and aggregation in human platelets: a role for Homers in the association between STIM1 and Orai1. BIOCHEMICAL JOURNAL. 445 - Part 1, pp. 29 - 38. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 2012. Available on-line at: <http://www.biochemj.org/bj/445/0029/bj4450029.htm>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.654
Journal in the top 25%: Yes
Position of publication: 61
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 0

Relevant results: Homer is a family of cytoplasmic adaptor proteins that play different roles in cell function, including the regulation of G-protein-coupled receptors. These proteins contain an Ena (Enabled)/VASP (vasodilator-stimulated phosphoprotein) homology 1 domain that binds to the PPXXF sequence motif, which is present in different Ca^{2+}-handling proteins such as IP3 (inositol 1,4,5-trisphosphate) receptors and TRPC (transient receptor potential canonical) channels. In the present study we show evidence for a role of Homer proteins in the STIM1 (stromal interaction molecule 1)-Orai1 association, as well as in the TRPC1-IP3RII (type II IP3 receptor) interaction, which might be of relevance in platelet function. Treatment of human platelets with thapsigargin or thrombin results in a Ca^{2+}-independent association of Homer1 with TRPC1 and IP3RII. In addition, thapsigargin

and thrombin enhanced the association of Homer1 with STIM1 and Orai1 in a Ca^{2+}-dependent manner. Interference with Homer function by introduction of the synthetic PPKKFR peptide into cells, which emulates the proline-rich sequences of the PPXXF motif, reduced STIM1-Orai1 and TRPC1- IP3RII associations, as compared with the introduction of the inactive PPKKRR peptide. The PPKKFR peptide attenuates thrombin-evoked Ca^{2+} entry and the maintenance of thapsigargin-induced store-operated Ca^{2+} entry. Finally, the PPKKFR peptide attenuated thrombin-induced platelet aggregation. The findings of the present study support an important role for Homer proteins in thrombin-stimulated platelet function, which is likely to be mediated by the support of agonist-induced Ca^{2+} entry.

59 A. Berna-Erro; G. E. Woodard; J. A. Rosado. Orais and STIMs: physiological mechanisms and disease. JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 16 - 3, pp. 407 - 424. Malden(United States of America): WILEY-BLACKWELL, 2012. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1582-4934.2011.01395.x/abstract;jsessionid=5E9E3FE603C66B47C4428E76657C75C4.d03t02>. ISSN 1582-1838

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 4.753
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 121
Source of citations: WOS
Citations: 0

Relevant results: The stromal interaction molecules STIM1 and STIM2 are Ca(2+) sensors, mostly located in the endoplasmic reticulum, that detect changes in the intraluminal Ca(2+) concentration and communicate this information to plasma membrane store-operated channels, including members of the Orai family, thus mediating store-operated Ca(2+) entry (SOCE). Orai and STIM proteins are almost ubiquitously expressed in human cells, where SOCE has been reported to play a relevant functional role. The phenotype of patients bearing mutations in STIM and Orai proteins, together with models of STIM or Orai deficiency in mice, as well as other organisms such as Drosophila melanogaster, have provided compelling evidence on the relevant role of these proteins in cellular physiology and pathology. Orai1-deficient patients suffer from severe immunodeficiency, congenital myopathy, chronic pulmonary disease, anhydrotic ectodermal dysplasia and defective dental enamel calcification. STIM1-deficient patients showed similar abnormalities, as well as autoimmune disorders. This review summarizes the current evidence that identifies and explains diseases induced by disturbances in SOCE due to deficiencies or mutations in Orai and STIM proteins.

60 Esther Lopez; Isaac Jardin; Alejandro Berna-Erro; Nuria Bermejo; Gines M. Salido; Stewart O. Sage; Juan A. Rosado; Pedro C. Redondo. STIM1 tyrosine-phosphorylation is required for STIM1-Orai1 association in human platelets. CELLULAR SIGNALLING. 24 - 6, pp. 1315 - 1322. New York(United States of America): ELSEVIER SCIENCE INC, 2012. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S089865681200071X>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.304
Journal in the top 25%: No
Position of publication: 62
No. of journals in the cat.: 184
Source of citations: WOS
Citations: 0

Relevant results: Stromal interaction molecule 1 (STIM1) is a key element of the store-operated Ca(2+) entry mechanism (SOCE). Recently, regulation of STIM1 by glycosylation and phosphorylation on serine/threonine or proline residues has been described; however other modes of phosphorylation that are important for activating SOCE in platelets, such as tyrosine phosphorylation, have been poorly investigated. Here we investigate the latency of STIM1 phosphorylation on tyrosine residues during the first steps of SOCE activation. Human platelets were stimulated and fixed at desired times using rapid kinetic assays instruments, and immunoprecipitation and

western blotting techniques were then used to investigate the pattern of STIM1 tyrosine phosphorylation during the first steps of SOCE activation. We have found that maximal STIM1 tyrosine phosphorylation occurred 2.5s after stimulation of human platelets with thapsigargin (Tg). STIM1 localized in the plasma membrane were also phosphorylated in platelets stimulated with Tg. By using chemical inhibitors that target different members of the Src family of tyrosine kinases (SKFs), two independent signaling pathways involved in STIM1 tyrosine phosphorylation during the first steps of SOCE activation were identified. We finally conclude that STIM1 tyrosine phosphorylation is a key event for the association of STIM1 with plasma membrane Ca(2+) channels such as Orai1, hence it is required for conducting SOCE activation.

61 Natalia Dionisio; Pedro Cosme Redondo; Isaac Jardin; Juan Antonio Rosado. TRANSIENT RECEPTOR POTENTIAL CHANNELS IN HUMAN PLATELETS: EXPRESSION AND FUNCTIONAL ROLE. CURRENT MOLECULAR MEDICINE. 12 - 10, pp. 1319 - 1328. SHARJAH(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2012.

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 4.197
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 121

Relevant results: Recent studies have demonstrated that mammalian homologues of Drosophila transient receptor potential (TRP) channels are widely expressed in human platelets. Occupation of G protein-coupled receptors by agonists results in activation of these channels, which results in Na+ and Ca2+ entry. Canonical or classic TRP (TRPC) family members have been reported to associate with different Ca2+-handling proteins, including the type II inositol 1,4,5-trisphosphate receptor, the endoplasmic reticulum Ca2+ sensor STIM1 (STromal Interaction Molecule-1) or the Ca2+ permeable channel Orai1. The dynamic interaction of TRPC channels with the above mentioned proteins has been found to be important for both store-operated and capacitative Ca2+ entry, as well as for non-capacitative Ca2+ influx. The former is a major mechanism for Ca2+ entry in human platelets. This mechanism, activated by a reduction in the concentration of free Ca2+ in the intracellular stores, results in the formation of signaling complexes involving STIM proteins, Orai1, Orai2, TRPC1 and TRPC6. There is a growing body of evidence supporting that Ca2+ signaling dysfunction plays an important role in the pathogenesis of several platelet-linked disorders, including those associated to type 2 diabetes mellitus. Abnormal Ca2+ signals in response to physiological agonists have been associated to platelet hyperactivity. The expression of several TRPCs, STIM1 and Orai1, as well as their interaction, has been reported to be altered in platelets from type 2 diabetic patients, which results in attenuated capacitative Ca2+ entry but enhanced non-capacitative Ca2+ influx; thus suggesting a role for Ca2+ handling proteins, including TRPs, in the pathomechanism of diabetic complications.

62 Jose Javier Lopez; Natalia Dionisio; Alejandro Berna Erro; Carmen Galan; Gines Maria Salido; Juan Antonio Rosado. Two-pore channel 2 (TPC2) modulates store-operated Ca(2+) entry.BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1823 - 10, pp. 1976 - 1983. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2012. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488912002261>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.808
Journal in the top 25%: Yes
Position of publication: 60
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 0
Source of citations: SCOPUS
Citations: 0

Relevant results: Two-pore channels (TPCs) are NAADP-sensitive receptor channels that conduct Ca(2+) efflux from the intracellular stores. Discharge of the internal Ca(2+) pools results in the activation of store-operated Ca(2+) entry (SOCE); however, the role of TPCs in the modulation of SOCE remains unexplored. Mammalian cells express three TPCs: TPC1, TPC2 and TPC3, a pseudogene in humans. Here we report that MEG01 and HEK293 cells endogenously express TPC1 and TPC2. Silencing TPC2 expression results in attenuation of the rate and extent of thapsigargin (TG)-evoked SOCE both in MEG01 and HEK293 cells, without having any effect on the ability of cells to accumulate Ca(2+) into the TG-sensitive stores. Similarly, silencing of native TPC2 expression reduced thrombin-induced Ca(2+) entry in MEG01 cells. In contrast, silencing of TPC1 expression was without effect either on TG or thrombin-stimulated Ca(2+) entry both in MEG01 and HEK293 cells. Biotinylation analysis revealed that TPC1 and TPC2 are expressed in internal membranes. Finally, co-immunoprecipitation experiments indicated that endogenously expressed TPC2, but not TPC1, associates with STIM1 and Orai1, but not with TRPC1, in MEG01 cells with depleted intracellular Ca(2+) stores, but not in resting cells. These results provide strong evidence for the modulation of SOCE by TPC2 involving de novo association between TPC2 and STIM1, as well as Orai1, in human cells.

63 Esther Lopez; Gines Maria Salido; Juan Antonio Rosado; Alejandro Berna Erro. Unraveling STIM2 function. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. Navarra, Foral Community of Navarre(Spain): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 2012. Available on-line at: <http://link.springer.com/article/10.1007%2Fs13105-012-0163-1>. ISSN 1138-7548

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 1.654
Journal in the top 25%: No
Position of publication: 51
No. of journals in the cat.: 79
Source of citations: WOS
Citations: 0

Relevant results: The discovery of molecular players in capacitative calcium (Ca(2+)) entry, also referred to as store-operated Ca(2+) entry (SOCE), supposed a great advance in the knowledge of cellular mechanisms of Ca(2+) entry, which are essential for a broad range of cellular functions. The identification of STIM1 and STIM2 proteins as the sensors of Ca(2+) stored in the endoplasmic reticulum unraveled the mechanism by which depletion of intracellular Ca(2+) stores is communicated to store-operated Ca(2+) channels located in the plasma membrane, triggering the activation of SOCE and intracellular Ca(2+)-dependent signaling cascades. Initial studies suggested a dominant function of STIM1 in SOCE and SOCE-dependent cellular functions compared to STIM2, especially those that participate in immune responses. Consequently, most of the subsequent studies focused on STIM1. However, during the last years, STIM2 has been demonstrated to play a more relevant and complex function than initially reported, being even important to sustain normal life in mice. These studies have led to reconsider the role of STIM2 in SOCE and its relevance in cellular physiology. This review is intended to summarize and provide an overview of the current data available about this exciting isoform, STIM2, and its actual position together with STIM1 in the mechanism of SOCE.

64 Alejandro Dominguez-Rodriguez; Ignacio Diaz; Maria Rodriguez-Moyano; Eva Calderon-Sanchez; Juan Antonio Rosado; Antonio Ordonez; Tarik Smani. Urotensin-II Signaling Mechanism in Rat Coronary Artery Role of STIM1 and Orai1-Dependent Store Operated Calcium Influx in Vasoconstriction. ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. 32 - 5, pp. 1325 - 1332. PHILADELPHIA(United States of America): LIPPINCOTT WILLIAMS & WILKINS, 2012. Available on-line at: <http://atvb.ahajournals.org/content/32/5/1325.long>. ISSN 1079-5642

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 6.338
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 67
Source of citations: WOS
Citations: 3

Relevant results: We used a combination of isometric tension measurement, Ca(2+) imaging, pharmacology, and molecular approaches to study UII-mediated rat coronary artery vasoconstriction and intracellular Ca(2+) mobilization in coronary smooth muscle cells. We found that UII promoted dose-dependent vasoconstriction and elicited Ca(2+) and Mn(2+) influx, which were sensitive to classical SOCE inhibitors. In addition, knockdown of either STIM1 or Orai1 essentially inhibited UII-mediated SOCE and prevented UII but not high-KCL evoked contraction in transfected coronary artery. Moreover, we found that Ca(2+)-independent phospholipase A(2)β was involved in UII effects and that is colocalized with STIM1 in different submembrane compartments. Importantly, STIM1 but not Orai1 downregulation inhibits significantly independent phospholipase A(2) activation. Furthermore, lysophosphatidylcholine, an independent phospholipase A(2) product, activated Orai1 but not STIM1-dependent contraction and SOCE.

65 Sergio Regodon; Asuncion Ramos; Maria P. Miguez; Antonio Carrillo-Vico; Juan A. Rosado; Isaac Jardin. Vaccination prepartum enhances the beneficial effects of melatonin on the immune response and reduces platelet responsiveness in sheep. BMC VETERINARY RESEARCH. 8, Londres, Inner London(United Kingdom): BIOMED CENTRAL LTD, 2012. Available on-line at: <http://www.biomedcentral.com/1746-6148/8/84>. ISSN 1746-6148

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - VETERINARY SCIENCES
Impact index in year of publication: 1.861
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 142
Source of citations: WOS
Citations: 0

Relevant results: The experiments were carried out in peripartum sheep from a farm located in an area of Mediterranean-type ecosystem. Plasma melatonin levels were determined by ELISA and sheep platelet aggregation was monitored using an aggregometer. Here we demonstrated for the first time that plasma melatonin concentration were higher in pregnant (125 pg/mL) than in non-pregnant sheep (15 pg/mL; $P < 0.05$). Administration of melatonin prepartum did not significantly modify platelet function but significantly improved the immune response to vaccination against C. perfringens.

66 Pedro Cosme Redondo; J. A. Rosado. A role for immunophilins in cellular signalling in health and disease. CURRENT MEDICINAL CHEMISTRY. 18 - 35, pp. 5322 - 5323. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2011. Available on-line at: <http://www.benthamdirect.org/pages/content.php?CMC/2011/00000018/00000035/0001C.SGM>. ISSN 0929-8673

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 4.859
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 4
Source of citations: WOS
Citations: 0

67 J. A. Rosado. Acidic Ca2+ stores in platelets. CELL CALCIUM. 50 - 2, SI, pp. 168 - 174. EDINBURGH, South Western Scotland(United Kingdom): CHURCHILL LIVINGSTONE, 2011. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0143416010001983>. ISSN 0143-4160

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Cell Biology
Impact index in year of publication: 3.766
Journal in the top 25%: No
Position of publication: 71
No. of journals in the cat.: 181

Source of citations: WOS **Citations:** 2

Relevant results: Changes in cytosolic free Ca(2+) concentration play a pivotal role in the regulation of platelet functions, from secretion of autocrine and procoagulant factors to reversible or irreversible aggregation. It has long been recognized that platelet agonists release Ca(2+) accumulated into the dense tubular system, the analogue of the endoplasmic reticulum. However, current evidence indicates that Ca(2+) can also be stored and released from a number of acidic organelles, including lysosomes and lysosome-related organelles. Ca(2+) release from the dense tubular system is mediated through phospholipase C-dependent synthesis of inositol 1,4,5-trisphosphate, whereas Ca(2+) efflux from the acidic stores seems to be associated to the second messenger nicotinic acid adenine dinucleotide phosphate. The biochemical and biophysical properties of both Ca(2+) stores in platelets have been reported to show significant differences. Selective discharge of one or both stores depends on the platelet agonist and the concentration used, which further supports the complexity of the Ca(2+) signals that regulate platelet function. In this paper, we summarize the current knowledge on the role of acidic organelles in agonist-evoked Ca(2+) mobilization and highlight recent progress in understanding the functional aspects of the acidic Ca(2+) stores in Ca(2+) signalling and platelet physiology.

68 Natalia Dionisio; Letizia Albarran; Jose J. Lopez; Alejandro Berna-Erro; Gines M. Salido; Regis Bobe; Juan A. Rosado. Acidic NAADP-releasable Ca2+ compartments in the megakaryoblastic cell line MEG01. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1813 - 8, pp. 1483 - 1494. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2011. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488911001364>. ISSN 0167-4889

Type of production: Scientific paper **Format:** Journal
Position of signature: 7 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.538 **Journal in the top 25%:** Yes
Position of publication: 45 **No. of journals in the cat.:** 290
Source of citations: WOS **Citations:** 6

Relevant results: Treatment of MEG01 cells with the H(+)/K(+) ionophore nigericin or the V-type H(+)-ATPase selective inhibitor bafilomycin A1 revealed the presence of acidic Ca(2+) stores in these cells, sensitive to the SERCA inhibitor 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). NAADP releases Ca(2+) from acidic lysosomal-like Ca(2+) stores in MEG01 cells probably mediated by the activation of TPC1 and TPC2 as demonstrated by TPC1 and TPC2 expression silencing and overexpression. Ca(2+) efflux from the acidic lysosomal-like Ca(2+) stores or the endoplasmic reticulum (ER) results in ryanodine-sensitive activation of Ca(2+)-induced Ca(2+) release (CICR) from the complementary Ca(2+) compartment. Our results show for the first time NAADP-evoked Ca(2+) release from acidic compartments through the activation of TPC1 and TPC2, and CICR, in a megakaryoblastic cell line.

69 Isaac Jardin; Jose J. Lopez; Hanene Zbidi; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Attenuated store-operated divalent cation entry and association between STIM1, Orai1, hTRPC1 and hTRPC6 in platelets from type 2 diabetic patients. BLOOD CELLS MOLECULES AND DISEASES. 46 - 3, pp. 252 - 260. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 2011. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1079979610003384>. ISSN 1079-9796

Type of production: Scientific paper **Format:** Journal
Position of signature: 6 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI **Category:** Science Edition - HEMATOLOGY
Impact index in year of publication: 2.351 **Journal in the top 25%:** No
Position of publication: 40 **No. of journals in the cat.:** 68
Source of citations: WOS **Citations:** 1

Relevant results: Agonist-evoked Ca(2+) entry has been reported to be enhanced in platelets from type 2 diabetic patients, which results in altered platelet responsiveness and cardiovascular complications. The present study is aimed to investigate whether store-operated divalent cation entry, a major Ca(2+) entry pathway, is altered in

platelets from diabetic patients. Store-operated divalent cation entry was estimated by determination of Mn(2+) entry. Association between STIM1, Orai1, hTRPC1 and hTRPC6 was detected by co-immunoprecipitation and Western blotting. In the presence of specific purinergic and serotoninergic receptor antagonists Mn(2+) entry, induced by thapsigargin (TG), was reduced in platelets from diabetic donors as compared to healthy controls. Treatment with TG or the agonist thrombin enhanced co-immunoprecipitation of STIM1 with Orai1, hTRPC1 and hTRPC6 in platelets from healthy donors, a response that was significantly reduced in platelets from diabetic patients. Our results indicate that store-operated divalent cation entry is reduced in platelets from type 2 diabetic subjects, which is likely mediated by impairment of the association of STIM1 with the channel subunits Orai1, hTRPC1 and hTRPC6 and might be involved in the pathogenesis of the altered platelet responsiveness observed in diabetic patients.

70 Hanene Zbidi; Isaac Jardin; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Ca2+ leakage rate from agonist-sensitive intracellular pools is altered in platelets from patients with type 2 diabetes. PLATELETS. 22 - 4, pp. 284 - 293. Londres, Inner London(United Kingdom): INFORMA HEALTHCARE, 2011. Available on-line at: <http://informahealthcare.com/doi/abs/10.3109/09537104.2010.528813>. ISSN 0953-7104

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 1.847
Journal in the top 25%: No
Position of publication: 48
No. of journals in the cat.: 68

Source of citations: WOS
Citations: 1

Relevant results: Platelets from patients with type 2 diabetes show abnormalities in intracellular Ca(2+) homeostasis that are involved in platelet hyperaggregability and the development of thrombotic complications. Different Ca(2+) transport mechanisms have been reported to be altered in platelets from patients with type 2 diabetes, including the sarcoendoplasmic and plasma membrane Ca(2+)-ATPases, plasma membrane Ca(2+) channels, or the Na(+)/Ca(2+) exchanger. Here, we have investigated whether passive Ca(2+) leak from the stores is altered in platelets from patients with type 2 diabetes. Resting cytosolic Ca(2+) concentration ([Ca(2+)](i)) was found to be greater in platelets from patients with type 2 diabetes than in healthy controls. In a Ca(2+)-free medium, platelet stimulation with thrombin or ADP evokes a rapid and transient increase in [Ca(2+)](i) that was found to be greater in patients with diabetes than in healthy controls. Sequential or combined inhibition of Ca(2+) extrusion and Ca(2+) sequestration into the stores reduced the difference between the responses to agonists in patients with diabetes and healthy controls, although agonist-induced Ca(2+) efflux from the stores was still significantly greater in patients with diabetes. Ca(2+) leak from the dense tubular system or the acidic stores, induced by a low concentration of thapsigargin or 2,5-di-(t-butyl)-1,4-hydroquinone (TBHQ), respectively, was clearly greater in patients with diabetes than in controls, and was not significantly modified by treatment with 2-APB. These findings indicate that passive Ca(2+) leakage rate from the intracellular stores in platelets is significantly enhanced in patients with type 2 diabetes mellitus and this might explain the increased resting [Ca(2+)](i).

71 N. Dionisio; L. Albarran; A. Berna-Erro; J. M. Hernandez-Cruz; G. M. Salido; J. A. Rosado. Functional role of the calmodulin- and inositol 1,4,5-trisphosphate receptor-binding (CIRB) site of TRPC6 in human platelet activation. CELLULAR SIGNALLING. 23 - 11, pp. 1850 - 1856. New York(United States of America): ELSEVIER SCIENCE INC, 2011. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S089865681100194X>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.058
Journal in the top 25%: No
Position of publication: 67
No. of journals in the cat.: 181

Source of citations: WOS
Citations: 2

Relevant results: Co-immunoprecipitation of TRPC6 with CaM or the IP(3)Rs at different cytosolic free Ca(2+) concentrations ([Ca(2+)](c)) indicates that the association between these proteins is finely regulated by cytosolic Ca(2+) via association of CaM and displacement of the IP(3)Rs at high [Ca(2+)](c). Thrombin-stimulated association of TRPC6 with CaM or the IP(3)Rs was sensitive to 2-APB and partially inhibited by dimethyl BAPTA loading, thus suggesting that the association between these proteins occurs through both Ca(2+)-dependent and -independent mechanisms. Incorporation of an anti-TRPC6 C-terminal antibody, whose epitope overlaps the CIRB region, impaired the dynamics of the association of TRPC6 with CaM and the IP(3)Rs, which lead to both inhibition and enhancement of thrombin- and thapsigargin-evoked Ca(2+) entry in the presence of low or high, respectively, extracellular Ca(2+) concentrations, as well as altered thrombin-evoked platelet aggregation.

72 H. J. Park; J. A. Rosado; P. C. Redondo; Y. S. Cho. Immunophilin Dysfunction and Neuropathology. CURRENT MEDICINAL CHEMISTRY. 18 - 35, pp. 5398 - 5407. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2011. Available on-line at: <http://www.benthamdirect.org/pages/content.php?CMC/2011/00000018/00000035/0006C.SGM>. ISSN 0929-8673

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 4.859
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 59
Source of citations: WOS
Citations: 0

Relevant results: In case of nervous damages, like nervous system trauma or various neurodegenerative diseases such as dementia or Parkinson, several treatments are available to restore neurological function. In spite of these treatments, results are often insufficient or not satisfactory in many neurologic diseases, especially for central nervous system (CNS) lesions. To minimize neurological dysfunction, it is critical to reduce neuronal death, avoiding loss of the synaptic connections, and securing viable neurons to extend axons. Unfortunately, there are no effective strategies to fulfill these basic needs except for some cases of peripheral neural damage up to now. Rescue of damaged neurons, stimulation of neurogenesis and transplantation of nervous tissue are strategies proposed to prevent neurodegenerative disorders. A number of studies have recently reported successful axon regeneration and neurological recovery by using immunosuppressants, such as FK506. Immunosuppressants act as excellent agents for enhancing the rate and extent of axon regeneration and neurological recovery. FK506 and other neuroimmunophilin ligands (NILs) might reverse neuronal degeneration. In several animal models mimicking Parkinson's disease, dementia and surgical damage, NILs induces resprouting, by acting as neurotrophic agents and preventing nerve damage, although more studies are necessary to identify new NILs with neuroprotective action, but lacking the side immunological effects observed in the ligands analyzed to date. This review explores the new clinical role of immunosuppressants in the treatment of nerve surgery of autologous, allografts or xenografts. Results of studies regarding immunosuppressant treatment of nervous system trauma and neurodegenerative diseases, like neurogenic erectile dysfunction, will be here considered.

73 E. Lopez; J. A. Rosado; P. C. Redondo. Immunophilins and Thrombotic Disorders. CURRENT MEDICINAL CHEMISTRY. 18 - 35, pp. 5414 - 5423. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2011. Available on-line at: <http://www.benthamdirect.org/pages/content.php?CMC/2011/00000018/00000035/0008C.SGM>. ISSN 0929-8673

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 4.859
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 59
Source of citations: WOS
Citations: 0

Relevant results: The immunophilin family includes a large group of proteins with peptidyl prolyl-isomerase activity (PPI-ase). Immunophilins chaperone activity has been documented to be crucial for the correct folding and activation of many proteins. Thus, they have been subjected of intense investigation since they were firstly described in the last decades of the past century. Many of these studies have been focused on leukocyte constitutively expressed immunophilins, due to their relevance in the correct folding, and subsequently, sensitization and activation of the glycoprotein receptor (RGBs) of lymphocyte T CD4+ and Treg, hence regulating immunological responses against pathogen insults. Several clinical trials have been completed in the last decade reporting that administration of immunophilin-binding drugs, derived from macrolide lactones, like cyclosporine A (CsA) and tacrolimus (FK506), induced successful results in preventing organ rejection. By contrast, the expression of immunophilins and their physiological function remain poorly investigated in others cell types, such as platelets, where a reduced number of studies presenting evidences of immunophilins expression and their physiological contribution have been published, despite a number of clinical trials have noticed side effects of these drugs in thrombosis and platelet count, thus suggesting a possible regulatory function of immunophilins in human platelets, which is reviewed here.

74 Natalia Dionisio; Carmen Galan; Isaac Jardin; Gines M. Salido; Juan. A. Rosado. Lipid rafts are essential for the regulation of SOCE by plasma membrane resident STIM1 in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1813 - 3, pp. 431 - 437. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2011. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488911000188>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.538
Journal in the top 25%: Yes
Position of publication: 45
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 0

Relevant results: STIM1 is a transmembrane protein essential for the activation of store-operated Ca^{2+} entry (SOCE), a major Ca^{2+} influx mechanism. STIM1 is either located in the endoplasmic reticulum, communicating the Ca^{2+} concentration in the stores to plasma membrane channels or in the plasma membrane, where it might sense the extracellular Ca^{2+} concentration. Plasma membrane-located STIM1 has been reported to mediate the SOCE sensitivity to extracellular Ca^{2+} through its interaction with Orai1. Here we show that plasma membrane lipid raft domains are essential for the regulation of SOCE by extracellular Ca^{2+}. Treatment of platelets with the SERCA inhibitor thapsigargin (TG) induced Mn^{2+} entry, which was inhibited by increasing concentrations of extracellular Ca^{2+}. Platelet treatment with methyl-β-cyclodextrin, which removes cholesterol and disrupts the lipid raft domains, impaired the inactivation of Ca^{2+} entry induced by extracellular Ca^{2+}. Methyl-β-cyclodextrin also abolished translocation of STIM1 to the plasma membrane stimulated by treatment with TG and prevented TG-evoked co-immunoprecipitation between plasma membrane-located STIM1 and the Ca^{2+} permeable channel Orai1. These findings suggest that lipid raft domains are essential for the inactivation of SOCE by extracellular Ca^{2+} mediated by the interaction between plasma membrane-located STIM1 and Orai1.

75 M. El Haouari; J. A. Rosado. Modulation of Platelet Function and Signaling by Flavonoids. MINI-REVIEWS IN MEDICINAL CHEMISTRY. 11 - 2, pp. 131 - 142. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 2011. Available on-line at: <http://www.benthamdirect.org/pages/content.php?MRMC/2011/00000011/00000002/0004N.SGM>. ISSN 1389-5575

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 2.528
Journal in the top 25%: No
Position of publication: 26
No. of journals in the cat.: 59
Source of citations: WOS
Citations: 4

Relevant results: Blood platelets play a crucial role in the primary hemostasis and vessel wall repair. However; platelet hyperactivation is implicated in the pathogenesis of cardiovascular diseases such as thrombosis, atherosclerosis and stroke. Epidemiological data have suggested that regular consumption of fruits and vegetables, which are rich in flavonoids, is associated to a reduction in cardiovascular events. The cardioprotective effect of flavonoids is partly due to the inhibition of platelet function. However; the mechanisms underlying the anti-platelet effect of these compounds remain unclear. The aim of this review is to discuss the role of platelets in cardiovascular disease and to provide an overview of the potential anti-platelet effect of flavonoids, focusing on the various platelet signaling pathways modulated by flavonoids, including oxidative stress, protein tyrosine phosphorylation, calcium mobilization and nitric oxide pathway. The understanding of these mechanisms will be helpful in the development of new anti-platelet agents based on flavonoids with fewer or no adverse effects.

76 Hanene Zbidi; Isaac Jardin; Geoffrey E. Woodard; Jose J. Lopez; Alejandro Berna-Erro; Gines M. Salido; Juan A. Rosado. STIM1 and STIM2 Are Located in the Acidic Ca2+ Stores and Associates with Orai1 upon Depletion of the Acidic Stores in Human Platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 286 - 14, pp. 12257 - 12270. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 2011. Available on-line at: <http://www.jbc.org/content/286/14/12257.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.773
Journal in the top 25%: Yes
Position of publication: 66
No. of journals in the cat.: 290
Source of citations: WOS
Citations: 6

Relevant results: Mammalian cells accumulate Ca2+ into agonist-sensitive acidic organelles, vesicles that possess a vacuolar proton-ATPase. Acidic Ca2+ stores include secretory granules and lysosome-related organelles. Current evidence clearly indicates that acidic Ca2+ stores participate in cell signaling and function, including the activation of store-operated Ca2+ entry in human platelets upon depletion of the acidic stores, although the mechanism underlying the activation of store-operated Ca2+ entry controlled by the acidic stores remains unclear. STIM1 has been presented as the endoplasmic reticulum Ca2+ sensor, but its role sensing intraluminal Ca2+ concentration in the acidic stores has not been investigated. Here we report that STIM1 and STIM2 are expressed in the lysosome-related organelles and dense granules in human platelets isolated by immunomagnetic sorting. Depletion of the acidic Ca2+ stores using the specific vacuolar proton-ATPase inhibitor, bafilomycin A1, enhanced the association between STIM1 and STIM2 as well as between these proteins and the plasma membrane channel Orai1. Depletion of the acidic Ca2+ stores also induces time-dependent co-immunoprecipitation of STIM1 with the TRPC proteins hTRPC1 and hTRPC6, as well as between Orai1 and both TRPC proteins. In addition, bafilomycin A1 enhanced the association between STIM2 and SERCA3. These findings demonstrate the location of STIM1 and STIM2 in the acidic Ca2+ stores and their association with Ca2+ channels and ATPases upon acidic stores discharge.

77 Carmen Galan; Natalia Dionisio; Tarik Smani; Gines M. Salido; Juan A. Rosado. The cytoskeleton plays a modulatory role in the association between STIM1 and the Ca2+ channel subunits Orai1 and TRPC1. BIOCHEMICAL PHARMACOLOGY. 82 - 4, pp. 400 - 410. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 2011. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006295211003303>. ISSN 0006-2952

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 4.705
Journal in the top 25%: Yes
Position of publication: 28
No. of journals in the cat.: 261

Source of citations: WOS **Citations:** 3

Relevant results: Store-operated Ca(2+) entry (SOCE) is a major pathway for Ca(2+) influx in non-excitable cells. Recent studies favour a conformational coupling mechanism between the endoplasmic reticulum (ER) Ca(2+) sensor STIM1 and Ca(2+) permeable channels in the plasma membrane to explain SOCE. Previous studies have reported a role for the cytoskeleton modulating the activation of SOCE; therefore, here we have investigated whether the interaction between STIM1 and the Ca(2+) permeable channels is modulated by the actin or microtubular network. In HEK-293 cells, treatment with the microtubular disrupter colchicine enhanced both the activation of SOCE and the association between STIM1 and Orai1 or TRPC1 induced by thapsigargin (TG). Conversely, stabilization of the microtubules by paclitaxel attenuated TG-evoked activation of SOCE and the interaction between STIM1 and the Ca(2+) channels Orai1 and TRPC1, altogether suggesting that the microtubules act as a negative regulator of SOCE. Stabilization of the cortical actin filament layer results in inhibition of TG-evoked both association between STIM1, Orai1 and TRPC1 and SOCE. Interestingly, disruption of the actin filament network by cytochalasin D did not significantly modify TG-evoked association between STIM1 and Orai1 or TRPC1 but enhanced TG-stimulated SOCE. Finally, inhibition of calmodulin by calmidazolium enhances TG-evoked SOCE and disruption of the actin cytoskeleton results in inhibition of TG-evoked association of calmodulin with Orai1 and TRPC1. Thus, we demonstrate that the cytoskeleton plays an essential role in the regulation of SOCE through the modulation of the interaction between their main molecular components.

78 Francisco J. Aulestia; Pedro C. Redondo; Arancha Rodriguez-Garcia; Juan A. Rosado; Gines M. Salido; Maria Teresa Alonso; Javier Garcia-Sancho. Two distinct calcium pools in the endoplasmic reticulum of HEK-293T cells. BIOCHEMICAL JOURNAL. 435 - Part 1, pp. 227 - 235. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 2011. Available on-line at: <http://www.biochemj.org/bj/435/0227/bj4350227.htm>. ISSN 0264-6021

Type of production: Scientific paper **Format:** Journal
Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.897 **Journal in the top 25%:** Yes
Position of publication: 61 **No. of journals in the cat.:** 290

Source of citations: WOS **Citations:** 6

Relevant results: Agonist-sensitive intracellular Ca2+ stores may be heterogeneous and exhibit distinct functional features. We have studied the properties of intracellular Ca2+ stores using targeted aequorins for selective measurements in different subcellular compartments. Both, HEK-293T [HEK (human embryonic kidney)-293 cells expressing the large T-antigen of SV40 (simian virus 40)] and HeLa cells accumulated Ca2+ into the ER (endoplasmic reticulum) to near millimolar concentrations and the IP3-generating agonists, carbachol and ATP, mobilized this Ca2+ pool. We find in HEK-293T, but not in HeLa cells, a distinct agonist-releasable Ca2+ pool insensitive to the SERCA (sarco/endoplasmic reticulum Ca2+ ATPase) inhibitor TBH [2,5-di-(t-butyl)-benzohydroquinone]. TG (thapsigargin) and CPA (cyclopiazonic acid) completely emptied this pool, whereas lysosomal disruption or manoeuvres collapsing endomembrane pH gradients did not. Our results indicate that SERCA3d is important for filling the TBH-resistant store as: (i) SERCA3d is more abundant in HEK-293T than in HeLa cells; (ii) the SERCA 3 ATPase activity of HEK-293T cells is not fully blocked by TBH; and (iii) the expression of SERCA3d in HeLa cells generated a TBH-resistant agonist-mobilizable compartment in the ER. Therefore the distribution of SERCA isoforms may originate the heterogeneity of the ER Ca2+ stores and this may be the basis for store specialization in diverse functions. This adds to recent evidence indicating that SERCA3 isoforms may subserve important physiological and pathophysiological mechanisms.

79 Carmen Galan; Isaac Jardin; Natalia Dionisio; Gines Salido; Juan A. Rosado. Role of Oxidant Scavengers in the Prevention of Ca2+ Homeostasis Disorders. MOLECULES. 15 - 10, pp. 7167 - 7187. Basel(Switzerland): MDPI AG, 10/2010. Available on-line at: <http://www.mdpi.com/1420-3049/15/10/7167>. ISSN 1420-3049

Type of production: Scientific paper **Format:** Journal
Position of signature: 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ORGANIC
Impact index in year of publication: 1.988 **Journal in the top 25%:** No

Position of publication: 27 **No. of journals in the cat.:** 56

Source of citations: WOS **Citations:** 4

Relevant results: A number of disorders, such as Alzheimer disease and diabetes mellitus, have in common the alteration of the redox balance, resulting in an increase in reactive oxygen species (ROS) generation that might lead to the development of apoptosis and cell death. It has long been known that ROS can significantly alter Ca^{2+} mobilization, an intracellular signal that is involved in the regulation of a wide variety of cellular functions. Cells have a limited capability to counteract the effects of oxidative stress, but evidence has been provided supporting the beneficial effects of exogenous ROS scavengers. Here, we review the effects of oxidative stress on intracellular Ca^{2+} homeostasis and the role of antioxidants in the prevention and treatment of disorders associated to abnormal Ca^{2+} mobilization induced by ROS.

80 N. Dionisio; I. Jardin; G. M. Salido; J. A. Rosado. Homocysteine, Intracellular Signaling and Thrombotic Disorders. CURRENT MEDICINAL CHEMISTRY. 17 - 27, pp. 3109 - 3119. SAIF ZONE(United Arab Emirates): BENTHAM SCIENCE PUBL LTD, 09/2010. Available on-line at: <http://www.benthamdirect.org/pages/content.php?CMC/2010/00000017/00000027/0011C.SGM>. ISSN 0929-8673

Type of production: Scientific paper **Format:** Journal

Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - CHEMISTRY, MEDICINAL

Impact index in year of publication: 4.630 **Journal in the top 25%:** Yes

Position of publication: 4 **No. of journals in the cat.:** 54

Source of citations: WOS **Citations:** 4

Relevant results: Homocysteine, a sulphur-containing amino acid derived from methionine, has been presented as an independent risk factor for cardiovascular disorders, including atherosclerosis and thrombogenesis. The mechanisms underlying homocysteine-induced effects have been intensively investigated over the last two decades. Homocysteine can induce oxidative stress promoting oxidant injury to vascular and blood cells. Hyperhomocysteinemia often results in intracellular Ca2+ mobilization, endoplasmic reticulum (ER) stress, with the subsequent development of apoptotic events, chronic inflammation leading to endothelial dysfunction and remodeling of the extracellular matrix. Homocysteine has also been reported to induce modulation of gene expression through alteration of the methylation status. The effects of elevated concentrations of circulating homocysteine on the vascular wall, platelet function and coagulation factors promote the development of a pro-coagulant state. The pathophysiological significance of homocysteine in the development of vascular disorders through the induction of endothelial dysfunction and abnormal platelet activity and blood coagulation is discussed in this review.

81 Carmen Galan; Geoffrey E. Woodard; Natalia Dionisio; Gines M. Salido; Juan A. Rosado. Lipid rafts modulate the activation but not the maintenance of store-operated Ca2+ entry. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1803 - 9, pp. 1083 - 1093. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 09/2010. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S016748891000176X>. ISSN 0167-4889

Type of production: Scientific paper **Format:** Journal

Position of signature: 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.733 **Journal in the top 25%:** Yes

Position of publication: 62 **No. of journals in the cat.:** 286

Source of citations: WOS **Citations:** 11

Relevant results: Different studies have reported that proteins involved in Ca(2+) entry are localized in discrete plasma membrane domains known as lipid rafts, which have been suggested to support store-operated Ca(2+) entry by facilitating STIM1 clustering in endoplasmic reticulum-plasma membrane junctions as well as the

interaction of STIM1 with TRPC1. Here we report that treatment of HEK293 cells with thapsigargin (TG) results in the activation of Ca(2+) entry with two components, an early, La(3+)-sensitive, component and a late component that shows both La(3+)-sensitive and -insensitive constituents. Preincubation with methyl-beta-cyclodextrin (MbetaCD) prevented TG-induced activation of Ca(2+) entry but, in contrast, enhanced this process after its activation. Addition of MbetaCD after store depletion did not modify the La(3+)-sensitive store-operated divalent cation entry but increased La(3+)-insensitive non-capacitative Ca(2+) entry. Cell stimulation with TG results in a transient increase in Orai1 co-immunoprecipitation with STIM1, TRPC1 and TRPC6. TG-induced association of these proteins was significantly attenuated by preincubation for 30 min with MbetaCD, without altering surface expression of Orai1 or TRPCs. In contrast, the association of Orai1 with STIM1 or TRPC1 was unaffected when MbetaCD was added after store depletion with TG. Addition of MbetaCD to TG-treated cells promoted dissociation between Orai1 and TRPC6, as well as non-capacitative Ca(2+) entry. TRPC6 expression silencing indicates that MbetaCD-enhanced non-capacitative Ca(2+) entry was mediated by TRPC6. In conclusion, lipid raft domains are necessary for the activation but not the maintenance of SOCE probably due to the support of the formation of Ca(2+) signalling complexes involving Orai1, TRPCs and STIM1.

82 Hanene Zbidi; Pedro C. Redondo; Jose J. Lopez; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Homocysteine induces caspase activation by endoplasmic reticulum stress in platelets from type 2 diabetics and healthy donors. THROMBOSIS AND HAEMOSTASIS. 103 - 5, SI, pp. 1022 - 1032. STUTTGART(Germany): SCHATTAUER GMBH-VERLAG MEDIZIN NATURWISSENSCHAFTEN, 05/2010. Available on-line at: <http://www.schattauer.de/en/magazine/subject-areas/journals-a-z/thrombosis-and-haemostasis/contents/archive/issue/1069/manuscript/12784.html>. ISSN 0340-6245

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 4.701
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 68
Source of citations: WOS
Citations: 4

Relevant results: Diabetes mellitus is a disease characterised by hyperglycaemia and associated with several cardiovascular disorders, including angiopathy and platelet hyperactivity, which are major causes of morbidity and mortality in type 2 diabetes mellitus. In type 2 diabetic patients, homocysteine levels are significantly increased compared with healthy subjects. Hyperhomocysteinaemia is an independent risk factor for macro- and microangiopathy and mortality. The present study is aimed to investigate the effect of homocysteine on platelet apoptosis. Changes in cytosolic or intraluminal free Ca(2+) concentration were determined by fluorimetry. Caspase activity and phosphorylation of the eukaryotic initiation factor 2alpha (eIF2alpha) were explored by Western blot. Our results indicate that homocysteine releases Ca(2+) from agonist sensitive stores, enhances eIF2alpha phosphorylation at Ser(51) and activates caspase-3 and -9 independently of extracellular Ca(2+). Homocysteine induced activation of caspase-3 and -9 was abolished by salubrinal, an agent that prevents endoplasmic reticulum (ER) stress-induced apoptosis. Homocysteine-induced platelet effects were significantly greater in type 2 diabetics than in healthy subjects. These findings demonstrate that homocysteine induces ER stress-mediated apoptosis in human platelets, an event that is enhanced in type 2 diabetic patients, which might be involved in the pathogenesis of cardiovascular complications associated with type 2 diabetes mellitus.

83 Juan A. Rosado; Jose A. Pariente; Gines M. Salido; Pedro C. Redondo. SERCA2b Activity Is Regulated by Cyclophilins in Human Platelets. ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. 30 - 3, pp. 419 - U105. PHILADELPHIA(United States of America): LIPPINCOTT WILLIAMS & WILKINS, 03/2010. Available on-line at: <http://atvb.ahajournals.org/content/30/3/419.long>. ISSN 1079-5642

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 7.215
Journal in the top 25%: Yes

Position of publication: 3 **No. of journals in the cat.:** 68

Source of citations: WOS **Citations:** 7

Relevant results: Cyclophilin inhibition by cyclosporin A (CsA) evoked a time- and concentration-dependent reduction of Ca(2+) uptake by SERCA2b. However, other Ca(2+)-adenosine triphosphatases expressed in platelets, such as SERCA3 and plasma membrane Ca(2+) adenosine triphophatase, remained unaltered after CsA treatment. Cypermethrin, a non-CsA-related calcineurin inhibitor, did not alter SERCA2b activity. Furthermore, SERCA2b was affected by other CsA analogues, which do not interfere with calcineurin, such as PKF-211-811-NX5 (NIM811) and sanglifehrin A. Inhibition of the immunophilin family members using FK506 (tacrolimus) did not alter SERCA2b ability to sequester Ca(2+) into the dense tubular system. Coimmunoprecipitation experiments confirmed that cyclophilin A associates with SERCA2b and stromal interaction molecule-1 in resting platelets. This interaction is attenuated by the physiological agonist thrombin but enhanced by treatment with CsA or sanglifehrin A.

84 Geoffrey E. Woodard; Jose J. Lopez; Isaac Jardin; Gines M. Salido; Juan A. Rosado. TRPC3 Regulates Agonist-stimulated Ca2+ Mobilization by Mediating the Interaction between Type I Inositol 1,4,5-Trisphosphate Receptor, RACK1, and Orai1. JOURNAL OF BIOLOGICAL CHEMISTRY. 285 - 11, pp. 8045 - 8053. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 03/2010. Available on-line at: <http://www.jbc.org/content/285/11/8045.long>. ISSN 0021-9258

Type of production: Scientific paper **Format:** Journal

Position of signature: 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 5

Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 5.328 **Journal in the top 25%:** Yes

Position of publication: 50 **No. of journals in the cat.:** 286

Source of citations: WOS **Citations:** 22

Relevant results: There is a body of evidence suggesting that Ca(2+) handling proteins assemble into signaling complexes required for a fine regulation of Ca(2+) signals, events that regulate a variety of critical cellular processes. Canonical transient receptor potential (TRPC) and Orai proteins have both been proposed to form Ca(2+)-permeable channels mediating Ca(2+) entry upon agonist stimulation. A number of studies have demonstrated that inositol 1,4,5-trisphosphate receptors (IP(3)Rs) interact with plasma membrane TRPC channels; however, at present there is no evidence supporting the interaction between Orai proteins and IP(3)Rs. Here we report that treatment with thapsigargin or cellular agonists results in association of Orai1 with types I and II IP(3)Rs. In addition, we have found that TRPC3, RACK1 (receptor for activated protein kinase C-1), and STIM1 (stromal interaction molecule 1) interact with Orai1 upon stimulation with agonists. TRPC3 expression silencing prevented both the interaction of Orai1 with TRPC3 and, more interestingly, the association of Orai1 with the type I IP(3)R, but not with the type II IP(3)R, thus suggesting that TRPC3 selectively mediates interaction between Orai1 and type I IP(3)R. In addition, TRPC3 expression silencing attenuated ATP- and CCh-stimulated interaction between RACK1 and the type I IP(3)R, as well as Ca(2+) release and entry. In conclusion, our results indicate that agonist stimulation results in the formation of an Orai1-STIM1-TRPC3-RACK1-type I IP(3)R complex, where TRPC3 plays a central role. This Ca(2+) signaling complex might be important for both agonist-induced Ca(2+) release and entry.

85 Javier Espino; Ignacio Bejarano; Pedro C. Redondo; Juan A. Rosado; Carmen Barriga; Russel J. Reiter; Jose A. Pariente; Ana B. Rodriguez. Melatonin Reduces Apoptosis Induced by Calcium Signaling in Human Leukocytes: Evidence for the Involvement of Mitochondria and Bax Activation. JOURNAL OF MEMBRANE BIOLOGY. 233 - 1-3, pp. 105 - 118. New York(United States of America): SPRINGER, 02/2010. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2009.00675.x/abstract>. ISSN 0022-2631

Type of production: Scientific paper **Format:** Journal

Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - PHYSIOLOGY

Impact index in year of publication: 1.630
Journal in the top 25%: No
Position of publication: 53
No. of journals in the cat.: 78

Source of citations: WOS
Citations: 13

Relevant results: The role of melatonin in the mediation of apoptotic events has recently gained attention, especially after recent studies have reported that melatonin exerts antiapoptotic actions in normal cells but may activate proapoptotic pathways in some tumor cells. Here, we have evaluated the effect of melatonin on apoptosis in the human leukemia cell line HL-60. Melatonin treatment (1 mm) induced a significant increase in caspase-3 and -9 activities. The effect of melatonin on the activation of caspases was time dependent, reaching a maximum after 12 hr of stimulation, and then decreasing to a minimum after 72 hr. Treatment with melatonin also evoked mitochondrial membrane depolarization and permeability transition pore induction, which caused loss of mitochondrial staining by calcein, and increased cell death by apoptosis/necrosis as demonstrated by propidium iodide positive-staining of cells after 72 hr of stimulation. In addition, the exposure of cells to melatonin resulted in an activation and association of the proapoptotic proteins Bax and Bid, as well as promoting detectable increases in the expression of both proteins. We conclude that melatonin has proapoptotic and/or oncostatic effects in the human myeloid cell line HL-60.

86 Laura Chapado; Pablo J. Linares-Palomino; Sofia Salido; Joaquin Altarejos; Juan A. Rosado; Gines M. Salido. Synthesis and evaluation of the platelet antiaggregant properties of phenolic antioxidants structurally related to rosmarinic acid. BIOORGANIC CHEMISTRY. 38 - 1-3, pp. 108 - 114. San Diego(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 02/2010. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0045206809000959>. ISSN 0045-2068

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - CHEMISTRY, ORGANIC
Impact index in year of publication: 1.466
Journal in the top 25%: No
Position of publication: 32
No. of journals in the cat.: 56

Source of citations: WOS
Citations: 3

Relevant results: Polyphenols, such as rosmarinic acid, are widely distributed natural products with relevant antioxidant activity. Oxidative stress plays an important role in the pathogenesis of a number of disorders. Here, we report on the synthesis and biological effects of the polyphenolic esters hydroxytyrosyl gallate (1), hydroxytyrosyl protocatechuate (2) and hydroxytyrosyl caffeate (3), structurally related to rosmarinic acid. The three compounds showed a greater free radical scavenging activity than their precursors and also than rosmarinic acid. Esters 1 and 3 significantly reduced thrombin-evoked platelet aggregation, which is likely mediated to the attenuation of thrombin-stimulated Ca(2+) release and entry. The three compounds reduced the ability of platelets to accumulate Ca(2+) in the intracellular stores, probably by enhancing the Ca(2+) leakage rate and reduced store-operated Ca(2+) entry in these cells. These observations suggest that the structurally-simplified analogs to rosmarinic acid, compounds 1 and 3, might be the base of therapeutic strategies to prevent thrombotic complications associated to platelet hyperaggregability due to oxidative stress.

87 Nidhal Ben Amor; Hanene Zbidi; Aicha Bouaziz; Jardin Isaac; Juan M. Hernandez-Cruz; Gines M. Salido; Juan A. Rosado; Aghleb Bartegi. Acidic-store depletion is required for human platelet aggregation. BLOOD COAGULATION \& FIBRINOLYSIS. 20 - 7, pp. 511 - 516. PHILADELPHIA(United States of America): LIPPINCOTT WILLIAMS \& WILKINS, 10/2009. Available on-line at: <http://journals.lww.com/bloodcoagulation/pages/articleviewer.aspx?year=2009&issue=10000&article=00005&type=abstract>. ISSN 0957-5235

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 1.246
Journal in the top 25%: No
Position of publication: 52
No. of journals in the cat.: 61

Source of citations: WOS
Citations: 2

Relevant results: Platelet stimulation with thrombin induces an elevation in cytoplasmic free Ca(2+) concentration ([Ca(2+)]c) due to Ca(2+) release from intracellular stores and entry from the extracellular medium. Two different intracellular Ca(2+) stores have been described in human platelets: the dense tubular system and the lysosomal-like acidic stores. In the present study, we investigated the contribution of the acidic stores in thrombin-induced platelet aggregation. We have found that platelet aggregation induced by thrombin is reduced in a Ca(2+)-free medium. Discharge of the acidic Ca(2+) stores by treatment with the sarcoendoplasmic Ca(2+)-ATPase (SERCA)3 selective inhibitor 2,5-di-(tert-butyl)-1,4-hydroquinone reduced thrombin-evoked platelet aggregation. In the presence of 2,5-di-(tert-butyl)-1,4-hydroquinone, platelet aggregation induced by the protease-activated receptor (PAR)-1 and PAR-4 agonist peptides, SFLLRN and AYPGKF, respectively, was significantly reduced. In cells with depleted acidic stores, activation of GPIb-IX-V by thrombin resulted in reduced or no platelet aggregation in a medium containing 1 mmol/l Caor in a Ca(2+)-free medium, respectively. This finding suggests that Ca(2+) accumulation in the acidic Ca(2+) compartments is required for platelet aggregation induced by activation of the G-coupled PAR-1 and PAR-4 thrombin receptors and, by the occupation of the leucine-rich glycoprotein GPIb-IX-V and provide evidence supporting a functional role of the lysosomal-like acidic Ca(2+) stores in human platelets.

88 C. Galan; H. Zbidi; A. Bartegi; G. M. Salido; J. A. Rosado. STIM1, Orai1 and hTRPC1 are important for thrombin- and ADP-induced aggregation in human platelets. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 490 - 2, pp. 137 - 144. New York(United States of America): ELSEVIER SCIENCE INC, 10/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986109002665>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 3.046
Journal in the top 25%: No
Position of publication: 28
No. of journals in the cat.: 74
Source of citations: WOS
Citations: 8

Relevant results: Ca(2+) entry, particularly store-operated Ca(2+) entry (SOCE), has been reported to be crucial for a variety of cellular functions. SOCE is a mechanism regulated by the Ca(2+) content of the stores, where the intraluminal Ca(2+) sensor STromal Interaction Molecule 1 (STIM1) has been reported to communicate the filling state of the intracellular Ca(2+) stores to the store-operated Ca(2+)-permeable channels in the plasma membrane, likely involving Orai1 and TRPC proteins, such as TRPC1. Here we have investigated the role of Orai1, STIM1 and TRPC1 in platelet aggregation, an event that occurs during the process of thrombosis and hemostasis. Electrotransjection of cells with anti-STIM1 (25-139) antibody, directed towards the Ca(2+)-binding motif, significantly reduced thrombin-induced aggregation and prevented ADP-evoked response. Extracellular application of the anti-STIM1 antibody, in order to block the function of plasma membrane-located STIM1, reduced thrombin- and ADP-stimulated platelet aggregation to a lesser extent. Introduction of an anti-Orai1 (288-301) antibody, which binds the STIM1-binding site located in the Orai1 C-terminus, or extracellular application of anti-hTRPC1 (557-571) antibody to impair hTRPC1 channel function, significantly reduced thrombin- and ADP-induced platelet aggregation. These findings suggest a role of STIM1, Orai1 and hTRPC1 in thrombin- and ADP-induced platelet aggregation probably through the regulation of Ca(2+) entry, which might become targets for the development of therapeutic strategies to treat platelet hyperactivity and thrombosis disorders.

89 Isaac Jardin; Jose J. Lopez; Pedro C. Redondo; Gines M. Salido; Juan A. Rosado. Store-operated Ca2+ entry is sensitive to the extracellular Ca2+ concentration through plasma membrane STIM1. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1793 - 10, pp. 1614 - 1622. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 10/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488909001864>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.374

Position of publication: 64 **No. of journals in the cat.:** 283

Source of citations: WOS **Citations:** 10

Relevant results: Store-operated Ca(2+) entry (SOCE) is a major mechanism for Ca(2+) influx in platelets and other cells activated by a reduction in Ca(2+) concentration in the intracellular stores. SOCE has been reported to be regulated by extracellular Ca(2+), although the underlying mechanism remains unclear. Here we have examined the involvement of plasma membrane-located STIM1 (PM-STIM1) in the regulation of SOCE by extracellular Ca(2+). Treatment of platelets with the SERCA inhibitor thapsigargin (TG) induced Mn(2+) entry, which was inhibited by extracellular Ca(2+) in a concentration-dependent manner. Incubation of platelets with a specific antibody, which recognizes the extracellular amino acid sequence 25-139 of PM-STIM1 that contains the Ca(2+)-binding domain, prevented the inactivation of Ca(2+) entry induced by extracellular Ca(2+). TG induced translocation of STIM1 to the plasma membrane (PM), an event that was found to be Ca(2+)-dependent. In addition, TG stimulated association of PM-STIM1 with Orai1, an event that was not prevented by stabilization of the membrane cytoskeleton using jasplakinolide. These findings suggest that PM-STIM1 is important for the inactivation of SOCE by extracellular Ca(2+), an event that is likely to be mediated by interaction with Orai1.

90 Ignacio Bejarano; Javier Espino; David Gonzalez Flores; Javier Garcia Casado; Pedro Cosme Redondo; Juan Antonio Rosado; Carmen Barriga; Jose Antonio Pariente; Ana Beatriz Rodriguez. ROLE OF CALCIUM SIGNALS ON HYDROGEN PEROXIDE-INDUCED APOPTOSIS IN HUMAN MYELOID HL-60 CELLS. International journal of Biomedical science. 5 - 3, pp. 246 - 256. Pomona(United States of America): Master Publishing Group, 01/09/2009. Available on-line at: <http://www.ijbs.org/user/ContentFullText.aspx?VolumeNO=5&StartPage=246&Type=pdf>.

Type of production: Scientific paper **Format:** Journal

Position of signature: 6 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Relevant results: The present study is aimed to determine the role of calcium signaling evoked by the oxygen radical, hydrogen peroxide (H2O2) and the specific inhibitor of calcium reuptake thapsigargin on apoptosis in the human leukemia cell line HL-60. Our results show that treatment of HL-60 cells with 100 µM H2O2 and 1 µM thapsigargin induced a transient increase in cytosolic free calcium concentration ([ca2+]) due to calcium release from internal stores. these stimulatory effects on calcium signals were followed by activation of the mitochondrial permeability transition pore (mPtP), as well as a time-dependent increase in caspase-9 and -3 activities. Our results also show that H2O2 and thapsigargin were able to increase the relative content of fragmented DNA and phosphatidylserine externalization, as detected by double-staining with propidium iodide (PI) and annexin-VFItc, respectively. Treatment of cells with H2O2 or thapsigargin resulted in activation of the proapoptotic protein bid. Furthermore, coimmunoprecipitation experiments showed active bax was bound to bid, which regulates Bid activity and promotes apoptosis. Our findings suggest that H2O2 - and thapsigargin-induced apoptosis is dependent on rises in [ca2+]c in human myeloid HL-60 cells.

91 Hanene Zbidi; Jose J. Lopez; Nidhal Ben Amor; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Enhanced expression of STIM1/Orail and TRPC3 in platelets from patients with type 2 diabetes mellitus. BLOOD CELLS MOLECULES AND DISEASES. 43 - 2, pp. 211 - 213. San Diego(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 09/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1079979609001065>. ISSN 1079-9796

Type of production: Scientific paper **Format:** Journal

Position of signature: 6 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - HEMATOLOGY

Impact index in year of publication: 2.901 **Journal in the top 25%:** No

Position of publication: 25 **No. of journals in the cat.:** 61

Source of citations: WOS **Citations:** 10

Relevant results: Type 2 diabetes mellitus (DM2) is a metabolic syndrome that contributes to both macrovascular and microvascular disorders, where platelet hyperaggregability, associated to abnormal intracellular Ca(2+) homeostasis, plays an important role. We have now investigated the expression of different proteins associated to Ca(2+) entry, a major Ca(2+) signalling event. DM2 donors were randomly selected from normotensive patients

with glycosylated Hb levels (HbA1c) over 6%. Control subjects were normal age- and gender-matched healthy people with HbA1c levels in the normal range (3.5-5%). Expression of TRPC1, 3 and 6, STIM1 and Orai1 was analyzed by Western blotting in DM2 patients and controls. Expression of TRPC1 in platelets from DM2 donors and controls was similar; however, expression of TRPC6 is reduced in platelets from DM2 patients as compared to healthy controls. We have found that expression of TRPC3, Orai1 and STIM1 is enhanced in DM2 subjects as compared to controls. Our findings provide an explanation to the enhanced Ca(2+) entry induced by physiological agonists in platelets from DM2 patients.

92 Isaac Jardin; Luis J. Gomez; Gines M. Salido; Juan A. Rosado. Dynamic interaction of hTRPC6 with the Orai1-STIM1 complex or hTRPC3 mediates its role in capacitative or non-capacitative Ca2+ entry pathways. BIOCHEMICAL JOURNAL. 420 - Part 2, pp. 267 - 276. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 06/2009. Available on-line at: <http://www.biochemj.org/bj/420/0267/bj4200267.htm>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.155
Journal in the top 25%: Yes
Position of publication: 50
No. of journals in the cat.: 283
Source of citations: WOS
Citations: 24

Relevant results: TRPC (canonical transient receptor potential) channel subunits have been shown to assemble into homo- or hetero-meric channel complexes, including different Ca2+-handling proteins, required for the activation of CCE (capacitative Ca2+ entry) or NCCE (non-CCE) pathways. In the present study we found evidence for the dynamic interaction between endogenously expressed hTRPC6 (human TRPC6) with either both Orai1 and STIM1 (stromal interaction molecule 1) or hTRPC3 to participate in CCE or NCCE. Electrotransjection of cells with an anti-hTRPC6 antibody, directed towards the C-terminal region, reduces CCE induced by TPEN [N,N,N',N'-tetrakis-(2-pyridylmethyl)-ethylenediamine], which reduces the intraluminal free Ca2+ concentration. Cell stimulation with thrombin or extensive Ca2+-store depletion by TG (thapsigargin)+ionomycin enhanced the interaction between hTRPC6 and the CCE proteins Orai1 and STIM1. In contrast, stimulation with the diacylglycerol analogue OAG (1-oleoyl-2-acetyl-sn-glycerol) displaces hTRPC6 from Orai1 and STIM1 and enhances the association between hTRPC6 and hTRPC3. The interaction between hTRPC6 and hTRPC3 was abolished by dimethyl-BAPTA [1,2-bis-(o-aminophenoxy)ethane-N,N,N',N'-tetra-acetic acid] loading, which indicates that this phenomenon is Ca2+-dependent. These findings support the hypothesis that hTRPC6 participates both in CCE and NCCE through its interaction with the Orai1-STIM1 complex or hTRPC3 respectively.

93 J. J. Lopez; P. C. Redondo; G. M. Salido; J. A. Pariente; J. A. Rosado. N,N,N',N'-tetrakis(2-pyridylmethyl)ethylenediamine induces apoptosis through the activation of caspases-3 and-8 in human platelets. A role for endoplasmic reticulum stress. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 7 - 6, pp. 992 - 999. Malden(United States of America): WILEY-BLACKWELL PUBLISHING, INC, 06/2009. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2009.03431.x/abstract;jsessionid=546F692B491D322722F167997D5BEF29.d02t04>. ISSN 1538-7933

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 6.069
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 61
Source of citations: WOS
Citations: 16

Relevant results: Our results indicate that TPEN reduces the amount of free Ca(2+) releasable by the Ca(2+)-mobilizing agonist thrombin. TPEN induced activation of caspase-3, -8 and -9 and subsequent

phosphatidylserine externalization. The ability of TPEN to induce phosphatidylserine externalization was smaller than that of thrombin. In addition, TPEN was able to induce phosphorylation of the eukaryotic initiation factor 2 alpha (eIF2 alpha). TPEN-mediated caspase-3 activation requires functional caspase-8, but is independent of H(2)O(2) generation. Activation of caspase-3 and -8 by TPEN was prevented by salubrinal, an agent that prevents ER stress-induced apoptosis.

94 Natalia Dionisio; Maria V. Garcia-Mediavilla; Sonia Sanchez-Campos; Pedro L. Majano; Ignacio Benedicto; Juan A. Rosado; Gines M. Salido; Javier Gonzalez-Gallego. Hepatitis C virus NS5A and core proteins induce oxidative stress-mediated calcium signalling alterations in hepatocytes. JOURNAL OF HEPATOLOGY. 50 - 5, pp. 872 - 882. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 05/2009. Available on-line at: <http://www.journal-of-hepatology.eu/article/S0168-8278%2809%2900085-3/abstract>. ISSN 0168-8278

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 8
Impact source: ISI
Category: Science Edition - GASTROENTEROLOGY & HEPATOLOGY
Impact index in year of publication: 7.818
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 66
Source of citations: WOS
Citations: 24

Relevant results: Cells transfected with NS5A and core proteins showed enhanced ROS/RNS production and resting cytosolic Ca(2+) concentration, and reduced Ca(2+) concentration into the stores. Phenylephrine-evoked Ca(2+) release, Ca(2+) entry and extrusion by the plasma membrane Ca(2+)-ATPase were significantly reduced in transfected cells. Similar effects were observed in cytokine-activated cells. Phenylephrine-evoked actin reorganization was reduced in the presence of core and NS5A proteins. These effects were significantly prevented by quercetin. Altered Ca(2+) mobilization and increased calpain activation were observed in replicon-containing cells.

95 Ignacio Bejarano; Pedro C. Redondo; Javier Espino; Juan A. Rosado; Sergio D. Paredes; Carmen Barriga; Russel J. Reiter; Jose A. Pariente; Ana B. Rodriguez. Melatonin induces mitochondrial-mediated apoptosis in human myeloid HL-60 cells. JOURNAL OF PINEAL RESEARCH. 46 - 4, pp. 392 - 400. Malden(United States of America): WILEY-BLACKWELL PUBLISHING, INC, 05/2009. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2009.00675.x/abstract>. ISSN 0742-3098

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 5.209
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 75
Source of citations: WOS
Citations: 35

Relevant results: The role of melatonin in the mediation of apoptotic events has recently gained attention, especially after recent studies have reported that melatonin exerts antiapoptotic actions in normal cells but may activate proapoptotic pathways in some tumor cells. Here, we have evaluated the effect of melatonin on apoptosis in the human leukemia cell line HL-60. Melatonin treatment (1 mm) induced a significant increase in caspase-3 and -9 activities. The effect of melatonin on the activation of caspases was time dependent, reaching a maximum after 12 hr of stimulation, and then decreasing to a minimum after 72 hr. Treatment with melatonin also evoked mitochondrial membrane depolarization and permeability transition pore induction, which caused loss of mitochondrial staining by calcein, and increased cell death by apoptosis/necrosis as demonstrated by propidium iodide positive-staining of cells after 72 hr of stimulation. In addition, the exposure of cells to melatonin resulted in an activation and association of the proapoptotic proteins Bax and Bid, as well as promoting detectable increases in the expression of both proteins. We conclude that melatonin has proapoptotic and/or oncostatic effects in the human myeloid cell line HL-60.

96 Hanene Zbidi; Sofia Salido; Joaquin Altarejos; Mercedes Perez-Bonilla; Aghleb Bartegi; Juan A. Rosado; Gines M. Salido. Olive tree wood phenolic compounds with human platelet antiaggregant properties. BLOOD CELLS MOLECULES AND DISEASES. 42 - 3, pp. 279 - 285. San Diego(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 05/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1079979609001065>. ISSN 1079-9796

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 2.901
Journal in the top 25%: No
Position of publication: 26
No. of journals in the cat.: 61
Source of citations: WOS
Citations: 11

Relevant results: Oleuropein and (+)-cycloolivil are natural polyphenolic compounds with a significant radical scavenging activity present in olive tree. We have investigated the antiaggregant effects of oleuropein and (+)-cycloolivil isolated from an ethyl acetate extract of olive tree wood. Oleuropein and (+)-cycloolivil reduced the ability of thrombin to stimulate platelet aggregation. Both compounds reduced thrombin-evoked Ca(2+) release and entry to a similar extent to hydroxytyrosol. This effect was greater in platelets from patients with type 2 diabetes mellitus than in controls. Thrombin-, thapsigargin- and 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-evoked protein tyrosine phosphorylation, which is involved in Ca(2+) signalling and platelet aggregation, is inhibited by oleuropein and (+)-cycloolivil. oleuropein and (+)-cycloolivil are natural oxygen radical scavengers that reduce thrombin-induced protein tyrosine phosphorylation, Ca(2+) signalling and platelet aggregation. These observations suggest that oleuropein and (+)-cycloolivil may prevent thrombotic complications associated to platelet hyperaggregability and be the base for the development of antiaggregant therapeutic strategies.

97 Gines M. Salido; Stewart O. Sage; Juan A. Rosado. Biochemical and functional properties of the store-operated Ca(2+) channels. CELLULAR SIGNALLING. 21 - 4, pp. 457 - 461. New York(United States of America): ELSEVIER SCIENCE INC, 04/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656808003379>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.094
Journal in the top 25%: No
Position of publication: 59
No. of journals in the cat.: 162
Source of citations: WOS
Citations: 24

Relevant results: Store-operated calcium entry (SOCE) is a major mechanism for Ca(2+) entry in excitable and non-excitable cells. The best-characterised store-operated current is I(CRAC), but other currents activated by Ca(2+) store depletion have also been reported. The recent identification of the proteins stromal interaction molecule 1 (STIM1) and Orai1 has shed new light on the nature and regulation of SOC channels. STIM1 has been presented as the endoplasmic reticulum (ER) Ca(2+) sensor that communicates the content of the Ca(2+) stores to the store-operated channels, a mechanism that involves redistribution of STIM1 to peripheral ER sites and co-clustering with the Ca(2+) channel subunit, Orai1. Interestingly, TRPC1, which has long been proposed as a SOC channel candidate, associates with Orai1 and STIM1 in a ternary complex that appears to increase the variability of SOC currents available to modulate cell function.

98 Sergio Regodon; Maria del Prado Miguez; Isaac Jardin; Jose J. Lopez; Asuncion Ramos; Sergio D. Paredes; Juan A. Rosado. Melatonin, as an adjuvant-like agent, enhances platelet responsiveness. JOURNAL OF PINEAL RESEARCH. 46 - 3, pp. 275 - 285. Malden(United States of America): WILEY-BLACKWELL PUBLISHING, INC, 04/2009. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2008.00658.x/abstract>. ISSN 0742-3098

Type of production: Scientific paper
Format: Journal
Position of signature: 7

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 5.209
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 75

Source of citations: WOS
Citations: 5

Relevant results: Melatonin exerts immunomodulatory actions that enhance the magnitude and quality of immune responses specific for certain antigens; this has raised the possibility of using melatonin to design novel vaccine adjuvant systems. The present study investigated the effect of subcutaneous slow-release melatonin implants and subcutaneous melatonin injections on the responsiveness of circulating platelets in sheep after vaccination against Dichelobacter nodosus (A1 and C serotypes), the bacterium that causes ovine footrot, a major cause of lameness in sheep. The experiments were carried out in sheep from a farm located in an area of Mediterranean-type ecosystem. Plasma melatonin levels were determined by radioimmunoassay, sheep platelet aggregation was monitored using an aggregometer and Ca2+ mobilization was determined by spectrofluorimetry using fura-2. Administration of melatonin either by implants or subcutaneous injections increased plasma melatonin concentrations, an effect that was found to be greater and more sustained when melatonin was administered via implants. Vaccination per se, as well as melatonin, increased the percentage and rate of platelet aggregation and reduced the lag-time in response to the physiological agonist thrombin, an effect that was found to be significantly greater when melatonin was administered to vaccinated animals. Melatonin enhanced thrombin-evoked Ca2+ release and entry and further increased Ca2+ mobilization observed in platelets from vaccinated sheep. These observations suggest that the use of melatonin, as a novel adjuvant, induces beneficial effects on platelet function and haemostasis, and opens new perspectives for therapeutic manipulation of immune responses to vaccination.

99 Sergio Regodon; Asuncion Ramos; Sara Morgado; Raquel Tarazona; Pedro Martin-Palomino; Juan A. Rosado; Maria del Prado Miguez. Melatonin enhances the immune response to vaccination against A1 and C strains of Dichelobacter nodosus. VACCINE. 27 - 10, pp. 1566 - 1570. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): ELSEVIER SCI LTD, 03/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0264410X09000152>. ISSN 0264-410X

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 3.616
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 93

Source of citations: WOS
Citations: 3

Relevant results: Melatonin has been shown to exert immunomodulatory properties with broad application in veterinary medicine. Here we have investigated the effect of exogenous melatonin in the improvement of the immune response to administration of an immune-preparation of two stumps of A1 and C strains of Dichelobacter nodosus in sheep. Subcutaneous administration of melatonin enhanced plasma levels of melatonin from days 42 to 120. Administration of melatonin to vaccinated animals enhanced both the titer of antibodies and serum IgG levels to A1 and C strains of D. nodosus compared to vaccinated animals not treated with melatonin. Our results suggest that melatonin increased the immune response to vaccination and open new perspectives in the design of prophylactic strategies.

100 Gines M. Salido; Stewart O. Sage; Juan A. Rosado. TRPC channels and store-operated Ca2+ entry. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1793 - 2, pp. 223 - 230. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 02/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S016748890800373X>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.374
Journal in the top 25%: Yes
Position of publication: 64
No. of journals in the cat.: 283

Source of citations: WOS
Citations: 33

Relevant results: Store-operated calcium entry (SOCE) is a major mechanism for Ca(2+) influx. Since SOCE was first proposed two decades ago many techniques have been used in attempting to identify the nature of store-operated Ca(2+) (SOC) channels. The first identified and best-characterised store-operated current is I(CRAC), but a number of other currents activated by Ca(2+) store depletion have also been described. TRPC proteins have long been proposed as SOC channel candidates; however, whether any of the TRPCs function as SOC channels remains controversial. This review attempts to provide an overview of the arguments in favour and against the role of TRPC proteins in the store-operated mechanisms of agonist-activated Ca(2+) entry.

101 Mohammed El Haouari; Juan A. Rosado. Platelet function in hypertension. BLOOD CELLS MOLECULES AND DISEASES. 42 - 1, pp. 38 - 43. San Diego(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/2009. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1079979608001770>. ISSN 1079-9796

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 2.901
Journal in the top 25%: No
Position of publication: 25
No. of journals in the cat.: 61

Source of citations: WOS
Citations: 15

Relevant results: Platelets from hypertensive patients show increased sensitivity to agonists and have high intracellular free Ca(2+) concentration. Furthermore, in hypertension, platelets show enhanced endogenous production of reactive oxygen species and a reduced antioxidant status which increases protein tyrosine phosphorylation, enhances Ca(2+) mobilization and attenuates NO bioavailability. The study of the abnormalities in platelet function in hypertensive patients can lead to the development of new pharmacological strategies to prevent and/or palliate hypertension-derived complications associated to platelet hyperactivity.

102 N. Alexandru; I. Jardin; D. Popov; M. Simionescu; J. Garcia-Estan; G. M. Salido; J. A. Rosado. Effect of homocysteine on calcium mobilization and platelet function in type 2 diabetes mellitus. JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 12 - 6B, pp. 2586 - 2597. Malden(United States of America): WILEY-BLACKWELL PUBLISHING, INC, 12/2008. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1582-4934.2008.00200.x/abstract>. ISSN 1582-1838

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 5.114
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 83

Source of citations: WOS
Citations: 13

Relevant results: Type 2 diabetes mellitus induces a characteristic platelet hyperactivity that might be due to several factors including oxidative stress and abnormal intracellular Ca(2+) homeostasis. Hyperhomocysteinaemia is considered a risk factor in the development of thrombosis although its effect on platelet function and the mechanisms involved are still poorly understood. Here we show that homocysteine induce a concentration-dependent increase in endogenous production of reactive oxygen species (ROS), which was significantly greater in platelets from diabetic patients than in controls. Platelet treatment with homocysteine resulted in Ca2+ release from the dense tubular system and the acidic stores. Ca2+ mobilization-induced by

homocysteine consisted in two components, an initial slow increase in intracellular free Ca (+) concentration ([Ca2+]i) and a rapid and marked increase in [Ca2+]i, th second leading to the activation of platelet aggregation. As well as ROS generation, Ca2+ mobilization and platelet aggregation were significantly greater in platelets from diabetic donors than in controls, which indicate that platelets from diabetic donors are more sensitive to homocysteine. These findings, together with the hyperhomocysteinaemia reported in diabetic patients, strongly suggest that homocysteine might be considered a risk factor in the development of cardiovascular complications associated to type 2 diabetes mellitus.

103 Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. Role of lipid rafts in the interaction between hTRPC1, Orai1 and STIM1.CHANNELS. 2 - 6, pp. 401 - 403. Austin(United States of America): LANDES BIOSCIENCE, 23/11/2008. ISSN 1933-6950

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 1.513
Journal in the top 25%: No
Position of publication: 205
No. of journals in the cat.: 275

Relevant results: Store-operated Ca2+ entry (SOCE) is a mechanism regulated by the filling state of the intracellular Ca2+ stores that requires the participation of the Ca2+ sensor STIM1, which communicates the Ca2+ content of the stores to the plasma membrane Ca2+-permeable channels. We have recently reported that Orai1 mediates the communication between STIM1 and the Ca2+ channel hTRPC1. This event is important to confer hTRPC1 store depletion sensitivity, thus supporting the functional role of the STIM1-Orai1-hTRPC1 complex in the activation of SOCE. Here we have explored the relevance of lipid rafts in the formation of the STIM1-Orai1-hTRPC1 complex and the activation of SOCE. Disturbance of lipid raft domains, using methyl-beta-cyclodextrin, reduces the interaction between endogenously expressed Orai1 and both STIM1 and hTRPC1 upon depletion of the intracellular Ca2+ stores and attenuates thapsigargin-evoked Ca2+ entry. These findings suggest that TRPC1, Orai1 and STIM1 form a heteromultimer associated with lipid raft domains and regulated by the intracellular Ca2+ stores.

104 J. J. Lopez; G. M. Salido; J. A. Pariente; J. A. Rosado. Thrombin induces activation and translocation of Bid, Bax and Bak to the mitochondria in human platelets. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 6 - 10, pp. 1780 - 1788. Malden(United States of America): WILEY-BLACKWELL, 10/2008. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2008.03111.x/abstract>. ISSN 1538-7933

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 6.291
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 56
Source of citations: WOS
Citations: 18

Relevant results: Treatment of platelets with thrombin or ADP induces activation and mitochondrial association of active Bid, Bax and Bak. Translocation of Bid and Bax to the mitochondria was reduced by cytochalasin D, latrunculin A or jasplakinolide. Platelet exposure to exogenous H(2)O(2) (10 microm) results in activation of Bid and Bax, which was found to be similar to the effect of thrombin. Thrombin evokes mitochondrial membrane depolarization, which is attenuated by catalase.

105 Isaac Jardin; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Orai1 mediates the interaction between STIM1 and hTRPC1 and regulates the mode of activation of hTRPC1-forming Ca2+ channels. JOURNAL OF BIOLOGICAL CHEMISTRY. 283 - 37, pp. 25296 - 25304. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 09/2008. Available on-line at: <http://www.jbc.org/content/283/37/25296.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 4

Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 5.520
Journal in the top 25%: Yes
Position of publication: 41
No. of journals in the cat.: 275

Source of citations: WOS
Citations: 60

Relevant results: Orai1 and hTRPC1 have been presented as essential components of store-operated channels mediating highly Ca(2+) selective I(CRAC) and relatively Ca(2+) selective I(SOC), respectively. STIM1 has been proposed to communicate the Ca(2+) content of the intracellular Ca(2+) stores to the plasma membrane store-operated Ca(2+) channels. Here we present evidence for the dynamic interaction between endogenously expressed Orai1 and both STIM1 and hTRPC1 regulated by depletion of the intracellular Ca(2+) stores, using the pharmacological tools thapsigargin plus ionomycin, or by the physiological agonist thrombin, independently of extracellular Ca(2+). In addition we report that Orai1 mediates the communication between STIM1 and hTRPC1, which is essential for the mode of activation of hTRPC1-forming Ca(2+) permeable channels. Electrotransjection of cells with anti-Orai1 antibody, directed toward the C-terminal region that mediates the interaction with STIM1, and stabilization of an actin cortical barrier with jasplakinolide prevented the interaction between STIM1 and hTRPC1. Under these conditions hTRPC1 was no longer involved in store-operated calcium entry but in diacylglycerol-activated non-capacitative Ca(2+) entry. These findings support the functional role of the STIM1-Orai1-hTRPC1 complex in the activation of store-operated Ca(2+) entry.

106 P. C. Redondo; J. A. Rosado; G. M. Salido; S. O. Sage. Protein complex immunological separation assay (ProCISA): a technique for investigating single protein properties. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 64 - 3, pp. 169 - 177. Pamplona, Foral Community of Navarre(Spain): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 09/2008. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03178839?LI=true>. ISSN 1138-7548

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 1.172
Journal in the top 25%: No
Position of publication: 60
No. of journals in the cat.: 74

Source of citations: WOS
Citations: 0

Relevant results: Analysis of the posttranslational modification of proteins, such as phosphorylation, might yield misleading results due to the presence of other proteins with similar electrophoretic properties that coimmunoprecipitate with the target protein. The aim of the present work was to develop a reliable, easy and economical technique to completely isolate a protein from its complex. Here we present a new assay developed to fully isolate proteins from macromolecular complexes that consists of an initial SDS/PAGE (under reducing conditions), which isolates the target protein, followed by transfer of the proteins to a buffer, from which the target protein is recaptured by conventional immunoprecipitation. This technique, that we have termed "Protein Complex Immunological Separation Assay" (ProCISA), successfully separated proteins of different sizes, such as pp60Src and the IP3 receptor (IP3R), from their complexes. We show that ProCISA allows the investigation of the tyrosine phosphorylation state of isolated proteins. This technique could also be used to study other posttranslational modifications without risk of misleading results resulting from contamination with other proteins of similar electrophoretic mobility which complex with the protein of interest.

107 Geoffrey E. Woodard; Gines M. Salido; Juan A. Rosado. Enhanced exocytotic-like insertion of Orai1 into the plasma membrane upon intracellular Ca2+ store depletion. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. 294 - 6, pp. C1323 - C1331. BETHESDA(United States of America): AMER PHYSIOLOGICAL SOC, 06/2008. Available on-line at: <http://ajpcell.physiology.org/content/294/6/C1323.long>. ISSN 0363-6143

Type of production: Scientific paper
Format: Journal

Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.230
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 74
Source of citations: WOS
Citations: 13

Relevant results: Ca+ release-activated Ca2+ (CRAC) channels are activated when free Ca2+ concentration in the intracellular stores is substantially reduced and mediate sustained Ca2+ entry. Recent studies have identified Orai1 as a CRAC channel subunit. Here we demonstrate that passive Ca2+ store depletion using the inhibitor of the sarcoendoplasmic reticulum Ca2+-ATPase, thapsigargin (TG), enhances the surface expression of Orai1, a process that depends on rises in cytosolic free Ca2+ concentration, as demonstrated in cells loaded with dimethyl BAPTA, an intracellular Ca2+ chelator that prevented TG-evoked cytosolic free Ca2+ concentration elevation. Similar results were observed with a low concentration of carbachol. Cleavage of the soluble N-ethylmaleimide-sensitive-factor attachment protein receptor, synaptosomal-assiciated protein-25 (SNAP-25), with botulinum neurotoxin A impaired TG-induced increase in the surface expression of Orai1. In addition, SNAP-25 cleaving by botulinum neurotoxin A reduces the maintenance but not the initial stages of store-operated Ca2+ entry. In aggregate, these findings demonstrate that store depletion enhances Orai1 plasma membrane expression in an exocytotic manner that involves SNAP-25, a process that contributes to store-dependent Ca2+ entry.

108 Pedro C. Redondo; Isaac Jardin; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Intracellular Ca(2+) store depletion induces the formation of macromolecular complexes involving hTRPC1, hTRPC6, the type II IP(3) receptor and SERCA3 in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1783 - 6, pp. 1163 - 1176. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 06/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488907003138>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.893
Journal in the top 25%: Yes
Position of publication: 54
No. of journals in the cat.: 275
Source of citations: WOS
Citations: 26

Relevant results: Endogenously expressed human canonical transient receptor potential 1 (hTRPC1) and human canonical transient receptor potential 6 (hTRPC6) have been shown to play a role in store-operated Ca2+ entry (SOCE) in human platelets, where two mechanisms for SOCE, regulated by the dense tubular system (DTS) or the acidic granules, have been identified. In cells preincubated for 1 min with 100 microM flufenamic acid we show that hTRPC6 is involved in SOCE activated by both mechanisms, as demonstrated by selective depletion of the DTS or the acidic stores, using thapsigargin (TG) (10 nM) or 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ) (20 microM), respectively, although it is more relevant after acidic store depletion. Co-immunoprecipitation experiments indicated that depletion of both stores separately results in time-dependent interaction between hTRPC1 and hTRPC6, and also between both hTRPCs and the type II IP3 receptor (IP3RII). The latter was greater after treatment with TG. TBHQ-induced coupling between hTRPC1 and 6 was transient and decreased after 30s of treatment, while that induced by TG increased for at least 3 min. TBHQ induced association between SERCA3, located in the acidic stores, hTRPC1, hTRPC6 and Orai1. TBHQ also evoked coupling between SERCA3 and IP3RII, presumably located in the DTS, thus suggesting interplay between both Ca2+ stores. Similarly, TG induces the interaction of SERCA2b with hTRPC1 and 6 and the IP3RII. The interactions between hTRPC1, hTRPC6, IP3RII and SERCA3 were impaired by disruption of the microtubules, supporting a role for microtubules in Ca2+ homeostasis. In conclusion, the present data demonstrate for the first time that hTRPC1, hTRPC6, IP3RII and SERCA3 are parts of a macromolecular protein complex activated by depletion of the intracellular Ca2+ stores in human platelets.

109 Jose J. Lopez; Isaac Jardin; Regis Bobe; Jose A. Pariente; Jocelyne Enouf; Gines M. Salido; Juan A. Rosado. STIM1 regulates acidic Ca2+ store refilling by interaction with SERCA3 in human platelets. BIOCHEMICAL PHARMACOLOGY. 75 - 11, pp. 2157 - 2164. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 06/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006295208001901>. ISSN 0006-2952

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 4.838
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 219
Source of citations: WOS
Citations: 22

Relevant results: Ca(2+) mobilization regulates a wide variety of cellular functions. Platelets possess agonist-releasable Ca(2+) stores in acidic organelles where sarcoendoplasmic reticulum Ca(2+)-ATPase-3 (SERCA) pump is involved in store refilling. Stromal interaction molecule 1 (STIM1), which has been presented as a central regulator of platelet function, is a Ca(2+) sensor of the intracellular Ca(2+) stores. Here we present that STIM1 is required for acidic store refilling. Electrotransjection of cells with anti-STIM1 (Y(231)-K(243)) antibody, directed towards a cytoplasmic sequence of STIM1, significantly reduced acidic store refilling, which was tested by remobilizing Ca(2+) from the acidic stores using 2,5-di-(t-butyl)-1,4-hydroquinone (TBHQ) after a brief refilling period that followed thrombin stimulation. Platelet treatment with thrombin or thapsigargin in combination with ionomycin, to induce extensive Ca(2+) store depletion, resulted in a transient increase in the interaction between STIM1 and SERCA3, reaching a maximum 30 s after stimulation. The coupling between STIM1 and SERCA3 was abolished by electrotransjection with anti-STIM1 antibody. The interaction between STIM1 and SERCA3 induced by thrombin or by treatment with thapsigargin plus ionomycin is reduced in platelets from type 2 diabetic patients, as well as Ca(2+) reuptake into the acidic Ca(2+) stores. These findings provide evidence for a role of STIM1 in acidic store refilling in platelets probably acting as a Ca(2+) sensor and regulating the activity of SERCA3. This action is impaired in platelets from type 2 diabetics, which might lead to the enhanced cytosolic Ca(2+) concentration observed and, therefore, in platelet hyperactivity.

110 Jose J. Lopez; Isaac Jardin; Gines M. Salido; Juan A. Rosado. Cinnarntannin B-1 as an antioxidant and platelet aggregation inhibitor. LIFE SCIENCES. 82 - 19-20, pp. 977 - 982. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 05/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0024320508001331>. ISSN 0024-3205

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 2.583
Journal in the top 25%: No
Position of publication: 33
No. of journals in the cat.: 83
Source of citations: WOS
Citations: 4

Relevant results: Cinnamtannin B-1 is a naturally occurring trimeric A-type proanthocyanidin, present in a limited number of plants, which exhibits a large number of cellular actions mostly derived from its antioxidant properties. Cinnamtannin B-1 modulates several biological processes such as changes in cytosolic free Ca(2+) concentration, endogenous reactive oxygen species generation, protein tyrosine phosphorylation and platelet aggregation. Proanthocyanidins, such as cinnamtannin B-1, have been reported to exert antitumoral activity mediated by a selective proapoptotic action in a number of tumoral cell lines associated with antiapoptotic activity in normal cells. The opposite effects of proanthocyanidins in normal and tumoral cells suggest that these compounds might be the base for therapeutic strategies directed selectively against tumoral cells. In addition, cinnamtannin B-1 shows antithrombotic actions through inhibition, in platelets, of endogenous ROS generation, Ca(2+) mobilization and, subsequently, aggregation. This has been reported to be especially relevant in platelets from diabetic patients, where cinnamtannin B-1 reverses both platelet hypersensitivity and hyperactivity. Considering the large number of

cellular effects of cinnamtannin B-1 the development of therapeutic strategies for thrombotic disorders or certain types of cancer deserves further studies. This review summarizes the current knowledge on the actions and relevance of the signalling pathways modulated by cinnamtannin B-1.

111 Isaac Jardin; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Functional relevance of the de novo coupling between hTRPC1 and type IIIP3 receptor in store-operated Ca2+ entry in human platelets. CELLULAR SIGNALLING. 20 - 4, pp. 737 - 747. New York(United States of America): ELSEVIER SCIENCE INC, 04/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656807003816>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.305
Journal in the top 25%: No
Position of publication: 52
No. of journals in the cat.: 157
Source of citations: WOS
Citations: 20

Relevant results: Store-operated Ca2+ entry (SOCE), a major mechanism for Ca2+ entry in non-excitable cells, is regulated by the filling state of the intracellular Ca2+ stores. We have previously reported that a de novo conformational coupling between the type II IP3 receptor (IP3RII) and hTRPC1 channel occurs after depletion of the intracellular Ca2+ stores in human platelets, which might be involved in the activation of SOCE in these cells. Here we present for the first time direct evidence for the functional relevance of the coupling between hTRPC1 and IP3RII in SOCE in human platelets. Our data suggest that at least two pathways may contribute to SOCE in these cells. An early component, insensitive to cytochalasin D (Cyt D), is followed by a late component which is sensitive to Cyt D. Introduction of a peptide corresponding to IP3RII(317-334) (IP3BD-peptide(317-334)) in the cells by electrotransjection impairs the coupling between hTRPC1 and IP3RII but not the interaction between hTRPC1 and STIM1 induced by store depletion. Coimmunoprecipitation experiments indicated that endogenously expressed hTRPC1 interacts with the IP3BD-peptide(317-334). Electrotransjection of cells with IP3BD-peptide(317-334), significantly attenuated the late stage of Ca2+ and Mn2+ entry induced by 10 nM thapsigargin (TG) or 20 microM 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ), providing evidence for a functional role of the de novo coupling between hTRPC1 and IP3RII in the activation of SOCE in human platelets.

112 Alfonsas Juska; Isaac Jardin; Juan A. Rosado. Physical properties of two types of calcium stores and SERCAs in human platelets. MOLECULAR AND CELLULAR BIOCHEMISTRY. 311 - 1-2, pp. 9 - 18. DORDRECHT(Holland): SPRINGER, 04/2008. Available on-line at: <http://link.springer.com/article/10.1007/s11010-007-9687-z>. ISSN 0300-8177

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 1.764
Journal in the top 25%: No
Position of publication: 125
No. of journals in the cat.: 157
Source of citations: WOS
Citations: 8

Relevant results: The aim of this work was to obtain experimental data depending on the properties of calcium stores and SERCAs, to analyse these data in terms of the models based on simulation of the cellular compartments as communicating vessels, and to relate this way the data to the above properties. The main characteristics of the stores and corresponding SERCAs have been estimated. Calcium content in the DTS is approximately 1.5 x 10(6) ions per cell, that in the acidic stores, approximately 0.64 x 10(6) ions per cell. The rate constant of background calcium leakage from the DTS is approximately 0.0033 s(-1), that from the acidic stores, approximately 0.1 s(-1). The background activity of SERCA2b is approximately 0.22 x 10(6)s(-1) ions per cell, that of SERCA3, approximately 2.5 x 10(6)s(-1) ions per cell. The properties of both calcium stores and the SERCAs and the characteristics found might be related to physiological or pathological state of the cells.

113 Isaac Jardin; Jose J. Lopez; Jose A. Pariente; Gines M. Salido; Juan A. Rosado. Intracellular calcium release from human platelets: Different messengers for multiple stores. TRENDS IN CARDIOVASCULAR MEDICINE. 18 - 2, pp. 57 - 61. Londres, Inner London(United Kingdom): ELSEVIER SCIENCE LONDON, 02/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1050173807002605>. ISSN 1050-1738

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Impact index in year of publication: 4.121
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 79
Source of citations: WOS
Citations: 15

Relevant results: Two separate Ca2+ stores have been reported in human platelets: the dense tubular system (DTS) and lysosome-like acidic organelles. Recent work has reported that Ca2+ release from the DTS is mediated by the generation of inositol 1,4,5-trisphosphate, whereas Ca2+ efflux from the acidic stores is mostly linked to nicotinic acid adenine dinucleotide phosphate. Platelet agonists release Ca2+ selectively from one or both stores, which provides additional insight into the complexity of Ca2+ signaling and the cellular functions activated. Here, we review the role of multiple Ca2+ mobilizing messengers and Ca2+ stores in the activation of specific functions in platelets in response to different physiologic agonists.

114 Pedro C. Redondo; Gines M. Salido; Jose A. Pariente; Stewart O. Sage; Juan A. Rosado. SERCA2b and 3 play a regulatory role in store-operated calcium entry in human platelets. CELLULAR SIGNALLING. 20 - 2, pp. 337 - 346. New York(United States of America): ELSEVIER SCIENCE INC, 02/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656807003233>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.305
Journal in the top 25%: No
Position of publication: 52
No. of journals in the cat.: 157
Source of citations: WOS
Citations: 11

Relevant results: Two agonist-releasable Ca(2+)stores have been identified in human platelets differentiated by the distinct sensitivity of their SERCA isoforms to thapsigargin (TG) and 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). Here we have examined whether the SERCA isotypes might be involved in store-operated Ca(2+)entry (SOCE) activated by the physiological agonist thrombin in human platelets. Ca(2+)-influx evoked by thrombin (0.01 U/mL) reached a maximum after 3 min, which was consistent with the decrease in the Ca(2+)content in the stores; afterwards, the extent of SOCE decreased with no correlation with the accumulation of Ca(2+)in the stores. Inhibition of SERCA2b, by 10 nM TG, and SERCA3, with 20 microM TBHQ, individually or simultaneously, accelerated Ca(2+) store discharge and subsequently enhanced the extent of SOCE stimulated by thrombin. In addition, TG and TBHQ modified the time course of thrombin-evoked SOCE from a transient to a sustained increase in Ca(2+) influx, which reveals a negative role for SERCAs in the regulation of SOCE. This effect was consistent under conditions that inhibit Ca(2+) extrusion by PMCA or the Na(+)/Ca(2+) exchanger. Coimmunoprecipitation experiments revealed that thrombin stimulates direct interaction between SERCA2b and 3 with the hTRPC1 channel, an effect that was found to be independent of SERCA activity. In summary, our results suggest that SERCA2b and 3 modulate thrombin-stimulated SOCE probably by direct interaction with the hTRPC1 channel in human platelets.

115 Isaac Jardin; Pedro C. Redondo; Gines M. Salido; Juan A. Rosado. Phosphatidylinositol 4,5-bisphosphate enhances store-operated calcium entry through hTRPC6 channel in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1783 - 1, pp. 84 - 97. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 01/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488907001905>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal

Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 4.893
Journal in the top 25%: Yes
Position of publication: 54
No. of journals in the cat.: 275

Source of citations: WOS
Citations: 33

Relevant results: Phosphatidylinositol 4,5-bisphosphate (PIP2) is a versatile regulator of TRP channels. We report that inclusion of a PIP2 analogue, PIP2 1,2-dioctanoyl, does not induce non-capacitative Ca2+ entry per se but enhanced Ca2+ entry stimulated either by thrombin or by selective depletion of the Ca2+ stores in platelets, the dense tubular system, using 10 nM TG, and the acidic stores, using 20 microM 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). Reduction of PIP2 levels by blocking PIP2 resynthesis with Li+ or introducing a monoclonal anti-PIP2 antibody, or sequestering PIP2 using poly-lysine, attenuated Ca2+ entry induced by thrombin, TG and TBHQ, and reduced thrombin-evoked, but not TG- or TBHQ-induced, Ca2+ release from the stores. Incubation with the anti-hTRPC1 antibody did not alter the stimulation of Ca2+ entry by PIP2, whilst introduction of anti-hTRPC6 antibody directed towards the C-terminus of hTRPC6 reduced Ca2+ and Mn2+ entry induced by thrombin, TG or TBHQ, and abolished the stimulation of Ca2+ entry by PIP2. The anti-hTRPC6 antibody, but not the anti-hTRPC1 antibody or PIP2, reduced non-capacitative Ca2+ entry by the DAG analogue 1-oleoyl-2-acetyl-sn-glycerol.
In summary, hTRPC6 plays a role both in store-operated and in non-capacitative Ca2+ entry. PIP2 enhances store-operated Ca2+ entry in human platelets, most probably by stimulation of hTRPC6 channels.

116 Mohammed El Haouari; Juan A. Rosado. Platelet signalling abnormalities in patients with type 2 diabetes mellitus: A review. BLOOD CELLS MOLECULES AND DISEASES. 41 - 1, pp. 119 - 123. San Diego(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1079979608000478>. ISSN 1079-9796

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 2.749
Journal in the top 25%: No
Position of publication: 28
No. of journals in the cat.: 62

Source of citations: WOS
Citations: 16

Relevant results: The hyperactivation of platelets is involved in the cardiovascular complications associated with type 2 diabetes mellitus. Altered platelet behavior contributes to the angiopathies associated with diabetes. A number of mechanisms involved in platelet activation are altered in diabetes. Platelets from type 2 diabetic patients show an enhanced endogenous reactive oxygen species production and a reduced antioxidant capability, which increase the activity of several tyrosine kinases, such as the Bruton's tyrosine kinase, MAP kinases or proteins of the SRC family. Oxidative stress is also involved in the abnormal intracellular calcium homeostasis observed in platelets from type 2 diabetics, including an enhanced resting cytosolic calcium concentration and calcium release and entry in response to agonists. Moreover, diabetes alters the bioavailability of nitric oxide in platelets. Basal nitric oxide synthase activity is reduced in homogenates of platelets obtained from patients with type 2 diabetes mellitus. The study of these abnormalities might be helpful in the development of new pharmacological strategies to reduce platelet activation in type 2 diabetes mellitus.

117 P. C. Redondo; A. G. S. Harper; M. T. Harper; S. L. Brownlow; J. A. Rosado; S. O. Sage. hTRPC1-associated alpha-actinin, and not hTRPC1 itself, is tyrosine phosphorylated during human platelet activation. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 5 - 12, pp. 2476 - 2483. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): BLACKWELL PUBLISHING, 12/2007. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2007.02773.x/abstract>. ISSN 1538-7933

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI

Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 5.947
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 54

Source of citations: WOS
Citations: 4

Relevant results: Classical immunoprecipitation suggested that thrombin (Thr) evoked an initial decrease in hTRPC1 phosphotyrosine content, which reached a minimum at 1 s, and then increased again, exceeding basal levels after 3 min. However, TRPC isolation from protein complexes using ProCISA revealed that hTRPC1, 4 and 5 were not tyrosine phosphorylated at rest or after Thr stimulation. Stimulation with Thr for 3 min increased the phosphotyrosine content of alpha-actinin, which shows similar electrophoretic properties to hTRPCs and coimmunoprecipitates with hTRPC1. Thr-evoked alpha-actinin tyrosine phosphorylation was increased by inhibiting the alpha-actinin phosphatase, SHP-1, which enhanced phosphorylation of the TRPC complex and SOCE. Inhibition of tyrosine phosphorylation impaired the interaction between hTRPC1 and the intracellular Ca(2+) sensor STIM1.

118 Geoffrey E. Woodard; Juan A. Rosado. Recent advances in natriuretic peptide research. JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 11 - 6, pp. 1263 - 1271. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): BLACKWELL PUBLISHING, 11/2007. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1582-4934.2007.00125.x/abstract>. ISSN 1582-1838

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 6.807
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 81

Source of citations: WOS
Citations: 12

Relevant results: The natriuretic peptides are a family of related hormones that play a crucial role in cardiovascular and renal homeostasis. They have recently emerged as potentially important clinical biomarkers in heart failure. Natriuretic peptides, particularly brain natriuretic peptide (BNP) and the inactive N-terminal fragment of BNP, NT-proBNP, that has an even greater half-life than BNP, are elevated in heart failure and therefore considered to be excellent predictors of disease outcome. Nesiritide, a recombinant human BNP, has been shown to provide symptomatic and haemodynamic improvement in acute decompensated heart failure, although recent reports have suggested an increased short-term risk of death with nesiritide use. This review article describes: the current use of BNP and its inactive precursor NT-proBNP in diagnosis, screening, prognosis and monitoring of therapy for congestive heart failure, the renoprotective actions of natriuretic peptides after renal failure and the controversy around the therapeutic use of the recombinant human BNP nesiritide.

119 Pedro C. Redondo; Alan G. S. Harper; Stewart O. Sage; Juan A. Rosado. Dual role of tubulin-cytoskeleton in store-operated calcium entry in human platelets. CELLULAR SIGNALLING. 19 - 10, pp. 2147 - 2154. New York(United States of America): ELSEVIER SCIENCE INC, 10/2007. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1582-4934.2007.00125.x/abstract>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.147
Journal in the top 25%: No
Position of publication: 49
No. of journals in the cat.: 156

Source of citations: WOS
Citations: 10

Relevant results: Two mechanisms for store-operated Ca(2+) entry (SOCE) regulated by two independent Ca(2+) stores, the dense tubular system (DTS) and the acidic stores, have been described in platelets. We

have previously suggested that coupling between the type II IP(3) receptor (IP(3)RII) and hTRPC1, involving reorganization of the actin microfilaments, play an important role in SOCE. However, the involvement of the tubulin microtubules, located beneath the plasma membrane, remains unclear. Here we show that the microtubule disrupting agent colchicine reduced Ca(2+) entry stimulated by low concentrations (0.1 U/mL) of thrombin, which activates SOCE mostly by depleting acidic Ca(2+)-store. Consistently, colchicine reduced SOCE activated by 2,5 di-(tertbutyl)-1,4-hydroquinone (TBHQ), which selectively depletes the acidic Ca(2+) stores. In contrast, colchicine enhanced SOCE mediated by depletion of the DTS, induced by high concentrations of thapsigargin (TG), which depletes both the acidic Ca(2+) stores and the DTS, the major releasable Ca(2+) store in platelets. These findings were confirmed by using Sr(2+) as a surrogate for Ca(2+) entry. Colchicine attenuated the coupling between IP(3)RII and hTRPC1 stimulated by thrombin while it enhanced that evoked by TG. Paclitaxel, which induces microtubular stabilization and polymerization, exerted the opposite effects on thrombin- and TG-evoked SOCE and coupling between IP(3)RII and hTRPC1 compared with colchicine. Neither colchicine nor paclitaxel altered the ability of platelets to extrude Ca(2+). These findings suggest that tubulin microtubules play a dual role in SOCE, acting as a barrier that prevents constitutive SOCE regulated by DTS, but also supporting SOCE mediated by the acidic Ca(2+) stores.

120 Mohammed El Haouari; Jose J. Lopez; Hassane Mekhfi; Juan A. Rosado; Gines M. Salido. Antiaggregant effects of Arbutus unedo extracts in human platelets. JOURNAL OF ETHNOPHARMACOLOGY. 113 - 2, pp. 325 - 331. EAST PARK SHANNON(Ireland): ELSEVIER IRELAND LTD, 09/2007. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0378874107003145>. ISSN 0378-8741

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - PLANT SCIENCES
Impact index in year of publication: 2.049
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 152

Source of citations: WOS
Citations: 9

Relevant results: Platelet hyperaggregability plays a pivotal role in the pathogenesis of cardiovascular diseases. Thrombin evokes aggregation through Ca(2+) mobilization, tyrosine phosphorylation and generation of reactive oxygen species (ROS). We have investigated the antiaggregant properties of Arbutus unedo extracts in human platelets. Changes in cytosolic Ca(2+) concentration and intracellular oxidants production were registered by espectrofluorimetry using fura-2 and dichlorodihydrofluorescein, respectively, platelet aggregation was assessed by aggregometry and protein tyrosine phosphorylation was detected by Western blotting. Platelet treatment with increasing concentrations (0.015-1.5mg/mL) of crude aqueous, ethyl acetate or diethyl ether extracts reduced platelet aggregation evoked by thrombin (0.5 U/mL) and show a potent ROS scavenger activity, preventing thrombin-evoked endogenous generation of ROS. Treatment with Arbutus unedo extracts did not alter thrombin-evoked Ca(2+) release from the intracellular stores but reduced store-operated Ca(2+) entry induced by thrombin or by selective depletion of the two Ca(2+) stores in platelets, the dense tubular system and the acidic stores. In addition, platelet treatment with extracts reduced both basal and thrombin-stimulated protein tyrosine phosphorylation. We conclude that Arbutus unedo extracts show antiaggregant actions due to attenuation of Ca(2+) mobilization, ROS production and protein tyrosine phosphorylation and might be used for the treatment and/or prevention of cardiovascular diseases.

121 Isaac Jardin; Nidhal Ben Amor; Juan M. Hernandez-Cruz; Gines M. Salido; Juan A. Rosado. Involvement of SNARE proteins in thrombin-induced platelet aggregation: Evidence for the relevance of Ca2+ entry. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 465 - 1, pp. 16 - 25. New York(United States of America): ELSEVIER SCIENCE INC, 09/2007. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986107002391>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 2.578
Journal in the top 25%: No
Position of publication: 32
No. of journals in the cat.: 69

Source of citations: WOS **Citations:** 14

Relevant results: Thrombin induces platelet activation through a variety of intracellular mechanisms, including Ca(2+) mobilization. The protein of the exocytotic machinery SNAP-25, but not VAMPs, is required for store-operated Ca(2+) entry, the main mechanism for Ca(2+) influx in platelets. Hence, we have investigated the role of the SNAP-25 and VAMPs in thrombin-induced platelet aggregation. Platelet stimulation with thrombin or selective activation of thrombin receptors PAR-1, PAR-4 or GPIb-IX-V results in platelet aggregation that, except for GPIb-IX-V receptor, requires Ca(2+) entry for full activation. Depletion of the intracellular Ca(2+) stores using pharmacological tools was unable to induce aggregation except when cytosolic Ca(2+) concentration reached a critical level (around 1.5 microM). Electrotransjection of cells with anti-SNAP-25 antibody reduced thrombin-evoked platelet aggregation, while electrotransjection of anti-VAMP-1, -2 and -3 antibody had no effect. These findings support a role for SNAP-25 but not VAMP-1, -2 and -3 in platelet aggregation, which is likely mediated by the regulation of Ca(2+) mobilization in human platelets.

122 Nidhal Ben Amor; Aicha Bouaziz; Cristina Romera-Castillo; Sofia Salido; Pablo J. Linares-Palomino; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Characterization of the intracellular mechanisms involved in the antiaggregant properties of cinnamtannin B-1 from bay wood in human platelets. JOURNAL OF MEDICINAL CHEMISTRY. 50 - 16, pp. 3937 - 3944. WASHINGTON(United States of America): AMER CHEMICAL SOC, 08/2007. Available on-line at: <http://pubs.acs.org/doi/abs/10.1021/jm070508d>. ISSN 0022-2623

Type of production: Scientific paper **Format:** Journal
Position of signature: 8 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 4.895 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 41

Source of citations: WOS **Citations:** 8

Relevant results: Cinnamtannin B-1, a natural A-type proanthocyanidin recently identified as a radical scavenger component of Laurus nobilis L., exerts antiaggregant and antiapoptotic effects in human platelets. Here, we have investigated the intracellular mechanisms involved in the antiaggregant effects of cinnamtannin B-1. Cinnamtannin B-1 showed a greater free radical scavenging activity than vitamin C, vitamin E, or Trolox, among other antioxidants and reduced thrombin-evoked tubulin reorganization and platelet aggregation. Thrombin-evoked activation of Btk and pp60(src) was also inhibited by cinnamtannin B-1. In conclusion, we show that cinnamtannin B-1 is a powerful oxygen radical scavenger that reduces thrombin-evoked microtubular remodeling and activation of the tyrosine kinases Btk and pp60(src), which leads to inhibition of platelet aggregation. These observations suggest that cinnamtannin B-1 may prevent thrombotic complications associated to platelet hyperaggregability and hyperactivity, although further studies are necessary to establish appropriate therapeutic strategies.

123 Aicha Bouaziz; Niclhal Ben Amor; Geoffrey E. Woodard; Hanen Zibidi; Jose J. Lopez; Ahgleb Bartegi; Gines M. Salido; Juan A. Rosado. Tyrosine phosphorylation/dephosphorylation balance is involved in thrombin-evoked microtubular reorganisation in human platelets. THROMBOSIS AND HAEMOSTASIS. 98 - 2, pp. 375 - 384. STUTTGART(Germany): SCHATTAUER GMBH-VERLAG MEDIZIN NATURWISSENSCHAFTEN, 08/2007. Available on-line at: <http://www.schattauer.de/en/magazine/subject-areas/journals-a-z/thrombosis-and-haemostasis/contents/archive/issue/739/manuscript/8499.html>. ISSN 0340-6245

Type of production: Scientific paper **Format:** Journal
Position of signature: 8 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 4,701 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 68

Source of citations: WOS **Citations:** 13

Relevant results: We have investigated the intracellular mechanisms involved in microtubular remodelling by thrombin and its possible involvement in platelet aggregation and secretion. Platelet stimulation with thrombin induces a time- and concentration-dependent regulation of the microtubular content, which was found to

be maximally effective at the concentration 0.1 U/ml. Thrombin (0.1 U/ml) evoked an initial decrease in the microtubule content detectable at 5 seconds (sec) and reached a minimum 10 sec after stimulation. The microtubular content then increased, exceeding basal levels again approximately 30 sec after stimulation. Inhibition of tyrosine phosphatases using vanadate abolished thrombin-induced microtubular depolymerisation while inhibition of tyrosine kinases by methyl-2,5-dihydroxycinnamate prevented microtubule polymerisation. Thrombin activates the cytosolic Bruton's tyrosine kinase (Btk) and Src proteins. Inhibition of Btk or Src by LFM-A13 or PP1, respectively, abolished thrombin-induced microtubular polymerisation, while maintaining intact its ability to induce initial depolymerisation. Microtubular disruption by colchicine significantly reduced thrombin-induced platelet aggregation and ATP secretion. Similar results were observed after inhibition of microtubular disassembly by paclitaxel. These findings indicate that thrombin induces microtubular remodelling by modifying the balance between protein tyrosine phosphorylation and dephosphorylation. The former seems to be required for microtubular polymerisation, while tyrosine dephosphorylation is required for microtubular depolymerisation. Both, initial microtubular disassembly and subsequent polymerisation are required for thrombin-induced platelet aggregation and secretion in human platelets.

124 J. J. Lopez; G. M. Salido; E. Gomez-Arteta; J. A. Rosado; J. A. Pariente. Thrombin induces apoptotic events through the generation of reactive oxygen species in human platelets. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 5 - 6, pp. 1283 - 1291. Oxford, Berkshire, Buckinghamshire and Oxfordshire(United Kingdom): BLACKWELL PUBLISHING, 06/2007. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2007.02505.x/abstract>. ISSN 1538-7933

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Impact index in year of publication: 5.947
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 54
Source of citations: WOS
Citations: 33

Relevant results: Treatment of platelets with thrombin stimulates mitochondrial membrane potential depolarization and endogenous generation of H(2)O(2) . Platelet exposure to exogenous H(2)O(2) results in cytochrome c release and activation of caspases-9. In addition, H(2)O(2) induces the activation of caspase-3 and PS exposure by a mechanism dependent on cytochrome c release and caspase-9 activation. Finally, thrombin-evoked development of apoptotic events was impaired by treatment with catalase.

125 Mohammed El Haouari; Isaac Jardin; Hassane Mekhfi; Juan A. Rosado; Gines M. Salido. URTICA DIOICA EXTRACT REDUCES PLATELET HYPERAGGREGABILITY IN TYPE 2 DIABETES MELLITUS BY INHIBITION OF OXIDANT PRODUCTION, CA2+ MOBILIZATION AND PROTEIN TYROSINE PHOSPHORYLATION. JOURNAL OF APPLIED BIOMEDICINE. 113 - 2, pp. 325 - 331. Ceske Budejovice(Czech Republic): Faculty of Health and Social Studies, University of South Bohemia, 07/05/2007. Available on-line at: <www.zsf.jcu.cz/jab/5_2/haouari.pdf>. ISSN 1214-0287

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Relevant results: Platelet hyperaggregability is involved in the pathogenesis of type 2 diabetes mellitus. Thrombin-evoked platelet aggregation includes the activation of several intracellular pathways, including endogenous generation of reactive oxygen species (ROS), Ca2+ mobilization and protein tyrosine phosphorylation. Here we show that crude aqueous extract from Urtica dioica reduces thrombin-evoked aggregation in platelets from healthy donors and diabetics, in a concentration-dependent manner. U. dioica extract showed a potent antioxidant activity and prevented thrombin-evoked ROS generation in platelets from healthy and diabetic donors. Treatment with U. dioica extract reduced Ca2+ entry induced by thrombin or selective depletion of the two Ca2+ stores in platelets (without altering Ca2+ release), reduced protein tyrosine phosphorylation and reversed the abnormal Ca2+ mobilization and tyrosine phosphorylation in platelets from diabetics. We conclude that extract from U. dioica shows antiaggregant actions and might be used for the treatment and/or prevention of cardiovascular complications associated with type 2 diabetes mellitus

126 A. Bouaziz; C. Romera-Castillo; S. Salido; P. J. Linares-Palomino; J. Altarejos; A. Bartegi; J. A. Rosado; G. M. Salido. Cinnamtannin B-1 from bay wood exhibits antiapoptotic effects in human platelets. APOPTOSIS. 12 - 3, pp. 489 - 498. DORDRECHT(Holland): SPRINGER, 03/2007. Available on-line at: <http://link.springer.com/article/10.1007%2Fs10495-006-0014-z?LI=true>. ISSN 1360-8185

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 3.043
Journal in the top 25%: No
Position of publication: 76
No. of journals in the cat.: 156
Source of citations: WOS
Citations: 10

Relevant results: Proanthocyanidins, such as cinnamtannin B-1, are polyphenolic compounds with antioxidant activity that induce apoptosis in a number of tumoral cells. We have now investigated the pro- or anti-apoptotic effects of cinnamtannin B-1 in human platelets. Platelet stimulation with thrombin induced cellular apoptosis, as detected by phosphatidylserine exposure and the activation of caspases-3 and -9. Pretreatment for 30 min with cinnamtannin B-1 impaired thrombin-induced apoptosis in platelets. Thrombin has been shown to induce H(2)O(2) generation in platelets, which induced similar apoptotic events than thrombin in these cells. Pretreatment with cinnamtannin B-1 reduced H(2)O(2)-induced phosphatidylserine exposure and caspase activation. Finally, platelet stimulation with thrombin induced translocation of caspases-3 and -9 to the cytoskeletal (Triton-insoluble) fraction, which is important for their activation and the development of apoptotic events. Pretreatment with cinnamtannin B-1 impaired translocation of caspases-3 and -9 to the cytoskeleton and, as a result, procaspases are accumulated in the Triton-soluble fraction. Our results provide evidence for the antiapoptotic actions of cinnamtannin B-1 in human platelets.

127 Noemi M. Atucha; David Iyu; Antonia Alcaraz; Vladimir Rosa; Concepcion Martinez-Prieto; M. Clara Ortiz; Juan Antonio Rosado; Joaquin Garcia-Estan. Altered calcium signalling in platelets from bile-duct-ligated rats. CLINICAL SCIENCE. 112 - 3-4, pp. 167 - 174. Londres, Inner London(United Kingdom): PORTLAND PRESS LTD, 02/2007. Available on-line at: <http://www.clinsci.org/cs/112/0167/cs1120167.htm>. ISSN 0143-5221

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 3.900
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 81
Source of citations: WOS
Citations: 3

Relevant results: In the present study, we have analysed the mechanisms of Ca(2+) entry and release in platelets obtained from BDL (bile-duct-ligated) rats, 11-13 days and 4 weeks after surgery. Platelets were washed and loaded with fura-2, and [Ca(2+)](i) (cytosolic Ca(2+) concentration) was determined in cell suspensions by means of fluorescence spectroscopy. Basal [Ca(2+)](i) was similar in platelets from BDL rats compared with those from their respective controls, both in the absence and presence of extracellular Ca(2+). Platelet stimulation with thrombin in the absence and presence of extracellular Ca(2+) induced a rapid rise in [Ca(2+)](i) that was of greater magnitude in platelets from BDL rats than in controls. Ca(2+) storage was significantly elevated in platelets from BDL rats, as well as the activity of SERCA (sarcoplasmic/endoplasmic-reticulum Ca(2+)-ATPase). Capacitative Ca(2+) entry, as evaluated by inhibition of SERCA with thapsigargin, was also altered in platelets from BDL rats, having lower rates of Ca(2+) entry. In conclusion, chronic BDL alters intracellular Ca(2+) homoeostasis in platelets, such that an enhanced Ca(2+) release is evoked by thrombin, which may be due to an increased amount of Ca(2+) stored in the intracellular organelles and secondary to an enhanced activity of SERCA. These alterations are already evident before cirrhosis has completely developed and occurs during the cholestasis phase.

128 A. Bouaziz; S. Salido; P. J. Linares-Palomino; A. Sanchez; J. Altarejos; A. Bartegi; Gines M. Salido; Juan A. Rosado. Cinnamtannin B-1 from bay wood reduces abnormal intracellular Ca2+ homeostasis and platelet hyperaggregability in type 2 diabetes mellitus patients. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 457 - 2, pp. 235 - 242. New York(United States of America): ELSEVIER SCIENCE INC, 01/2007. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986106004085>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 2.578
Journal in the top 25%: No
Position of publication: 32
No. of journals in the cat.: 69
Source of citations: WOS
Citations: 15

Relevant results: Type 2 diabetes mellitus induces a number of cardiovascular disorders, including platelet hyperactivity and hyperaggregability, which is associated to an increased oxidant production and abnormal cytosolic Ca2+ mobilization. In the present study, we have investigated the effect of cinnamtannin B-1 obtained from bay wood on oxidants production, Ca2+ mobilization and aggregation in platelets from type 2 diabetic donors. Pretreatment of platelets with cinnamtannin B-1 reversed the enhanced oxidants production and Ca2+ mobilization, including Ca2+ entry, evoked by thapsigargin plus ionomycin or thrombin, observed in platelets from diabetic subjects, so that in the presence of cinnamtannin B-1 Ca2+ entry was similar in platelets from healthy and diabetic subjects. In addition, cinnamtannin B-1 reduced thrombin-induced aggregation in platelets from type 2 diabetic subjects. We conclude that cinnamtannin B-1 exerts an effective antioxidant action in platelets from patients with type 2 diabetes mellitus and reverses the enhanced Ca2+ mobilization and hyperaggregability.

129 Isaac Jardin; Nidhal Ben Amor; Ahgleb Bartegi; Jose A. Pariente; Gines M. Salido; Juan A. Rosado. Differential involvement of thrombin receptors in Ca2+ release from two different intracellular stores in human platelets. BIOCHEMICAL JOURNAL. 401 - Part 1, pp. 167 - 174. PORTLAND PRESS LTD, 01/2007. Available on-line at: <http://www.biochemj.org/bj/401/0167/bj4010167.htm>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.009
Journal in the top 25%: No
Position of publication: 67
No. of journals in the cat.: 263
Source of citations: WOS
Citations: 25

Relevant results: Physiological agonists increase cytosolic free Ca2+ concentration to regulate a number of cellular processes. The platelet thrombin receptors, PAR (protease-activated receptor) 1 PAR-4 and GPIb-IX-V (glycoprotein Ib-IX-V) have been described as potential contributors of thrombin-induced platelet aggregation. Platelets present two separate Ca2+ stores, the DTS (dense tubular system) and acidic organelles, differentiated by the distinct sensitivity of their respective SERCAs (sarcoplasmic/endoplasmic-reticulum Ca2+-ATPases) to TG (thapsigargin) and TBHQ [2,5-di-(tert-butyl)-1,4-hydroquinone]. However, the involvement of the thrombin receptors in Ca2+ release from each Ca2+ store remains unknown. Depletion of the DTS using ADP, which releases Ca2+ solely from the DTS, in combination with 10 nM TG, to selectively inhibit SERCA2 located on the DTS reduced Ca2+ release evoked by the PAR-1 agonist, SFLLRN, and the PAR-4 agonist, AYPGKF, by 80 and 50% respectively. Desensitization of PAR-1 and PAR-4 or pre-treatment with the PAR-1 and PAR-4 antagonists SCH 79797 and tcY-NH2 reduced Ca2+ mobilization induced by thrombin, and depletion of the DTS after desensitization or blockade of PAR-1 and PAR-4 had no significant effect on Ca2+ release stimulated by thrombin through the GPIb-IX-V receptor. Converse experiments showed that depletion of the acidic stores using TBHQ reduced Ca2+ release evoked by SFLLRN or AYPGKF, by 20 and 50% respectively, and abolished thrombin-stimulated Ca2+ release through the GPIb-IX-V receptor when PAR-1 and PAR-4 had been desensitized or blocked. Our results indicate that thrombin-induced activation of PAR-1 and PAR-4 evokes Ca2+ release from both Ca2+ stores, while activation of GPIb-IX-V by thrombin releases Ca2+ solely from the acidic compartments in human platelets.

130 Juan A. Rosado. Discovering the mechanism of capacitative calcium entry. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. 291 - 6, pp. C1104 - C1106. BETHESDA(United States of America): AMER PHYSIOLOGICAL SOC, 12/2006. Available on-line at: <http://ajpcell.physiology.org/content/291/6/C1104.long>. ISSN 0363-6143

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.334
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 78
Source of citations: WOS
Citations: 3

Relevant results: This essay examines the historical significance of an APS classic paper that is freely available online: Kwan CY, Takemura H, Obie JF, Thastrup O, and Putney JW Jr. Effects of MeCh, thapsigargin, and La(3+) on plasmalemmal and intracellular Ca(2+) transport in lacrimal acinar cells. Am J Physiol Cell Physiol 258: C1006-C1015, 1990.

131 Geofirey E. Woodard; Xiaohong Li; Juan A. Rosado. Renal atrial natriuretic peptide receptors binding properties and function are resistant to DOCA-salt-induced hypertension in rats. REGULATORY PEPTIDES. 137 - 3, pp. 114 - 120. Amsterdam, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 12/2006. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167011506000942>. ISSN 0167-0115

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 2.442
Journal in the top 25%: No
Position of publication: 31
No. of journals in the cat.: 78
Source of citations: WOS
Citations: 3

Relevant results: Atrial natriuretic peptide receptor types A (NPR-A) and C (NPR-C) binding properties and functional characteristics in renal glomeruli have been investigated in deoxycorticosterone acetate (DOCA)-treated hypertensive Wistar-Kyoto (WKY) rats and their respective controls. We found that DOCA administration had no significant effect on the maximum binding capacity or the affinity of renal NPR-A and NPR-C. NPR-C is involved in the regulation of cAMP production. Our results indicate that the cAMP production by NPR-C is not altered in DOCA-induced hypertension, since ANP(1-28), CNP(1-22) and C-ANP, which specifically bind to NPR-C, show a similar inhibitory effect on cAMP production stimulated by the physiological agonist histamine in glomeruli from DOCA-treated rats and controls. Finally, we have found that DOCA-induced hypertension does not modify NPR-A or NPR-C expression in rat glomerular membranes. These findings indicate that NPR-A and NPR-C binding properties and NPR-C-mediated inhibition of cAMP generation remain unaltered in DOCA-treated rats.

132 G. E. Woodard; J. Zhao; J. A. Rosado. Different effect of ATP on ANP receptor guanylyl cyclase in spontaneously hypertensive and normotensive rats. ACTA PHYSIOLOGICA. 188 - 3-4, pp. 195 - 206. Oxford, Inner London(United Kingdom): BLACKWELL PUBLISHING, 11/2006. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1748-1716.2006.01628.x/abstract>. ISSN 1748-1708

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 2.23
Journal in the top 25%: No
Position of publication: 34
No. of journals in the cat.: 78
Source of citations: WOS
Citations: 2

Relevant results: Natriuretic peptide receptor A (NPR-A) is the main physiological receptor for atrial natriuretic peptide (ANP). Maximal activation of NPR-A guanylyl cyclase (GC) requires ANP binding and ATP interaction with a putative cytoplasmic site. This study investigates the regulatory effect of ATP on GC-coupled NPR-A activity in Wistar Kyoto (WKY) and spontaneously hypertensive rats (SHR).Cyclic GMP production and competitive inhibition of [(125)I]ANP(1-28) binding were performed in solubilized glomerular and papillary renal membranes.Here, we report that incubation of renal glomerular and papillary membranes with ATP induced a concentration-dependent increase in basal and ANP(1-28)-stimulated GC activity that was significantly greater in SHR than in age-matched WKY. ATPgammaS was more effective than ATP and induced a greater stimulation of cGMP production in SHR than in WKY. In contrast, in solubilized membranes ATP exerted an inhibitory role on basal and ANP(1-28)-induced GC activity, suggesting that an accessory protein is required for ATP-induced GC activation. ATP increases NPR-A affinity for ANP(1-28) and decreased B(max) in crude and solubilized membranes. Kinetic analysis of GC-coupled NPR-A revealed that ATP reduced the Km and increased the V(max), an effect that was greater in SHR. Our observations indicate that ATP exerts a greater net effect on NPR-A in SHR than in WKY, which might explain the greater rate of cGMP production observed in SHR compared to WKY.

133 Juan A. Rosado; Jose J. Lopez; Emilio Gomez-Arteta; Pedro C. Redondo; Gines M. Salido; Jose A. Pariente. Early caspase-3 activation independent of apoptosis is required for cellular function. JOURNAL OF CELLULAR PHYSIOLOGY. 209 - 1, pp. 142 - 152. Hoboken(United States of America): WILEY-LISS, 10/2006. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1002/jcp.20715/abstract>. ISSN 0021-9541

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 3.638
Journal in the top 25%: No
Position of publication: 21
No. of journals in the cat.: 78

Source of citations: WOS
Citations: 45

Relevant results: A number of pro-apoptotic stimuli induce the activation of caspase-9, an initiator protease that activates executioner caspases, such as caspase-3, leading to the development of programmed cell death. Here we demonstrate that cell (platelets and pancreatic acinar cells) stimulation with agonists induces a bimodal activation of caspase-3. The early caspase-3 activation occurs within 1 min of stimulation and is independent on caspase-9 or mitochondrial cytochrome c release suggesting that is a non-apoptotic event. The ability of agonists to induce early activation of caspase-3 is similar to that observed for other physiological processes. Activation of caspase-3 by physiological concentrations of cellular agonists, including thrombin or CCK-8, is independent of rises in cytosolic calcium concentration but requires PKC activation, and is necessary for agonist-induced activation of the tyrosine kinases Btk and pp60src and for several cellular functions, including store-operated calcium entry, platelet aggregation, or pancreatic secretion. Thus, early activation of caspase-3 seems to be a non-apoptotic event required for cellular function.

134 G. E. Woodard; J. Zhao; J. A. Rosado. Inhibitory effect of Ca2+ on ATP-mediated stimulation of NPR-A-coupled guanylyl cyclase in renal glomeruli from spontaneously hypertensive and normotensive rats. JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. 57 - 3, pp. 359 - 373. KRAKOW(Poland): POLISH PHYSIOLOGICAL SOC, 09/2006. Available on-line at: <http://www.jpp.krakow.pl/journal/archive/09_06/pdf/359_09_06_article.pdf>. ISSN 0867-5910

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 2.974
Journal in the top 25%: No
Position of publication: 27
No. of journals in the cat.: 78

Source of citations: WOS
Citations: 0

Relevant results: Atrial natriuretic peptide (ANP) regulates blood pressure mainly through the occupation of the guanylyl cyclase-coupled receptor NPR-A, which requires ATP interaction for maximal activation. This study investigates the effect of extracellular Ca(2+) on ATP-mediated regulation of NPR-A-coupled guanylyl cyclase

activity in glomerular membranes from Wistar Kyoto (WKY) and spontaneously hypertensive rats (SHR). ATP induced a significant increase in basal and ANP(1-28)-stimulated guanylyl cyclase activity that was greater in SHR than in WKY. Extracellular Ca(2+) inhibited ATP-stimulated guanylyl cyclase activity in a concentration-dependent manner, but did not modify basal and ANP(1-28)-stimulated guanylyl cyclase activity. In the presence of ATP, NPR-A showed higher affinity for ANP(1-28) and lower Bmax. Ca(2+) did not modify NPR-A-ANP(1-28) binding properties. The different effects of extracellular Ca(2+) on ANP(1-28)- or ATP-mediated guanylyl cyclase activation suggest that these events are differentially regulated. Addition of extracellular Ca(2+) induced similar effects in hypertensive and normotensive rats, suggesting that it is not responsible for the elevated cGMP production observed in SHR.

135 Jose J. Lopez; Gines M. Salido; Jose A. Pariente; Juan A. Rosado. Interaction of STIM1 with endogenously expressed human canonical TRP1 upon depletion of intracellular Ca2+ stores. JOURNAL OF BIOLOGICAL CHEMISTRY. 281 - 38, pp. 28254 - 28264. Bethesda(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 09/2006. Available on-line at: <http://www.jbc.org/content/281/38/28254.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 5.808
Journal in the top 25%: Yes
Position of publication: 39
No. of journals in the cat.: 262
Source of citations: WOS
Citations: 115

Relevant results: STIM1 (stromal interaction molecule 1) has recently been proposed to communicate the intracellular Ca(2+) stores with the plasma membrane to mediate store-operated Ca(2+) entry. Here we describe for the first time that Ca(2+) store depletion stimulates rapid STIM1 surface expression and association with endogenously expressed human canonical TRP1 (hTRPC1) independently of rises in cytosolic free Ca(2+) concentration. These events require the support of the actin cytoskeleton in human platelets, as reported for the coupling between type II inositol 1,4,5-trisphosphate receptor in the Ca(2+) stores and hTRPC1 in the plasma membrane, which has been suggested to underlie the activation of store-operated Ca(2+) entry in these cells. Electrotransjection of cells with anti-STIM1 antibody, directed toward the N-terminal sequence that includes the Ca(2+)-binding region, prevented the migration of STIM1 toward the plasma membrane, the interaction between STIM1 and hTRPC1, the coupling between hTRPC1 and type II inositol 1,4,5-trisphosphate receptor, and reduced store-operated Ca(2+) entry. These findings provide evidence for a role of STIM1 in the activation of store-operated Ca(2+) entry probably acting as a Ca(2+) sensor.

136 N Ben Amor; JA Pariente; GM Salido; A Bartegi; JA Rosado. Caspases 3 and 9 are translocated to the cytoskeleton and activated by thrombin in human platelets. Evidence for the involvement of PKC and the actin filament polymerization. CELLULAR SIGNALLING. 18 - 8, pp. 1252 - 1261. New York(United States of America): ELSEVIER SCIENCE INC, 08/2006. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656805002639>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.887
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 156
Source of citations: WOS
Citations: 11

Relevant results: Platelets express, among others, initiator caspase 9 and effector caspase 3. Upon activation by physiological agonists, calcium ionophores or under shear stress they might develop apoptotic events. Although it is well known that the cytoskeletal network plays a crucial role in apoptosis, the relationship between caspases 3 and 9 and the cytoskeleton is poorly understood. Here we demonstrate that the physiological agonist thrombin

is able to induce activation of caspases 3 and 9 in human platelets and significantly increases the amount in the cytoskeleton of the active forms of both caspases and the procaspases 3 and 9. After stimulation with thrombin the amount of active caspases 3 and 9 in the cytosolic and cytoskeletal fractions were significantly reduced in Ro-31-8220-treated cells, which demonstrates that caspases activation and association with the cytoskeleton needs the contribution of PKC. Inhibition of actin polymerization by cytochalasin D inhibits translocation and activation of both caspases, suggesting that thrombin stimulates caspase 3 and 9 activation and association with the reorganizing actin cytoskeleton. Finally, our results show that inhibition of thrombin-induced caspase activation has no effect on their translocation to the cytoskeleton although impairment of thrombin-evoked caspase translocation has negative effects on caspase activity, suggesting that translocation to the cytoskeleton might be important for caspase activation by thrombin in human platelets.

137 Isaac Jardin; Pedro C. Redondo; Gines M. Salido; Jose A. Pariente; Juan A. Rosado. Endogenously generated reactive oxygen species reduce PMCA activity in platelets from patients with non-insulin-dependent diabetes mellitus. PLATELETS. 17 - 5, pp. 283 - 288. OXON(United Kingdom): TAYLOR \& FRANCIS LTD, 08/2006. Available on-line at: <http://informahealthcare.com/doi/abs/10.1080/09537100600745187>. ISSN 0953-7104

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 1.679
Journal in the top 25%: No
Position of publication: 40
No. of journals in the cat.: 61
Source of citations: WOS
Citations: 15

Relevant results: Intracellular Ca2+ homeostasis in platelets of patients with non-insulin-dependent diabetes mellitus (NIDDM) has been reported to be altered, leading to an increased adhesiveness and spontaneous aggregation. Among the disturbed Ca2+ mechanism in platelets from NIDDM subjects, a reduced Ca2+ extrusion by the plasma membrane Ca2+-ATPase (PMCA) is especially relevant, maintaining an elevated cytosolic free Ca2+ concentration that results in platelet hypersensitivity. Here we show that treatment of platelets from NIDDM patients with 300 U/mL catalase or 5 mM D-mannitol, which prevent H2O2- and hydroxyl radicals-mediated oxidative stress, respectively, increases Ca2+ extrusion after treatment with thapsigargin (TG) plus ionomycin (Iono). In contrast, 1 mM trolox, a scavenger of ONOO-, did not alter TG + Iono-induced response. Catalase and D-mannitol reversed the enhanced tyrosine phosphorylation of PMCA induced by TG + Iono in NIDDM patients. These findings open up new horizon for the development of therapeutic strategies to palliate cardiovascular disorders in NIDDM.

138 Juan A. Rosado; Ana M. Nunez; Jose J. Lopez; Jose A. Pariente; Gines M. Salido. Intracellular Ca2+ homeostasis and aggregation in platelets are impaired by ethanol through the generation of H2O2 and oxidation of sulphydryl groups. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 452 - 1, pp. 9 - 16. New York(United States of America): ELSEVIER SCIENCE INC, 08/2006. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986106002025>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 2.969
Journal in the top 25%: No
Position of publication: 22
No. of journals in the cat.: 66
Source of citations: WOS
Citations: 7

Relevant results: The mechanisms involved in the effect of ethanol on Ca2+ entry and aggregability have been investigated in human platelets in order to shed new light on the pathogenesis of alcohol consumption. Ethanol (50 mM) induced H2O2 production in platelets by Ca2+-dependent and independent mechanisms. Ca2+ entry induced by ethanol was impaired by catalase. Ethanol reduced SOCE mediated by depletion of the 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-sensitive acidic stores but enhances SOCE regulated by the dense tubular system. This effect was abolished by treatment with catalase or the sulphydryl group reducing agent dithiotreitol (DTT). Similarly, the anti-aggregant effect of ethanol was prevented by platelet treatment with

catalase or DTT. In conclusion we provide considerable evidence that ethanol alters Ca2+ entry and reduces thrombin-induced aggregation as a result of the generation of H2O2 and the oxidation of sulphydryl groups in human platelets.

139 MA Martinez-Burgos; MP Granados; A Gonzalez; JA Rosado; MD Yago; GM Salido; E Martinez-Victoria; M Manas; JA Pariente. Involvement of ryanodine-operated channels in tert-butylhydroperoxide-evoked Ca2+ mobilisation in pancreatic acinar cells. JOURNAL OF EXPERIMENTAL BIOLOGY. 209 - 11, pp. 2156 - 2164. CAMBRIDGE(United Kingdom): COMPANY OF BIOLOGISTS LTD, 06/2006. Available on-line at: <http://jeb.biologists.org/content/209/11/2156.long>. ISSN 0022-0949

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: BIOLOGY
Impact index in year of publication: 2.631
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 65
Source of citations: WOS
Citations: 4

Relevant results: Reactive oxygen species and related oxidative damage have been implicated in the initiation of acute pancreatitis, a disease characterised in its earliest stages by disruption of intracellular Ca2+ homeostasis. The present study was carried out in order to establish the effect of the organic pro-oxidant, tert-butylhydroperoxide (tBHP), on the mobilisation of intracellular Ca2+ stores in isolated rat pancreatic acinar cells and the mechanisms underlying this effect. Cytosolic free Ca2+ concentrations ([Ca2+]c) were monitored using a digital microspectrofluorimetric system in fura-2 loaded cells. In the presence of normal extracellular Ca2+ concentrations ([Ca2+]o), perfusion of pancreatic acinar cells with 1 mmol l-1 tBHP caused a slow sustained increase in [Ca2+]c. This increase was also observed in a nominally Ca2+-free medium, indicating a release of Ca2+ from intracellular stores. Pretreatment of cells with tBHP abolished the typical Ca2+ response of both the physiological agonist CCK-8 (1 nmol l-1) and thapsigargin (TPS, 1 micromol l-1), an inhibitor of the SERCA pump, in the absence of extracellular Ca2+. Similar results were observed with carbonyl cyanide p-trifluoromethoxyphenylhydrazone (FCCP, 0.5 micromol l-1), a mitochondrial uncoupler. In addition, depletion of either agonist-sensitive Ca2+ pools by CCK-8 or TPS or mitochondrial Ca2+ pools by FCCP were unable to prevent the tBHP-induced Ca2+ release. By contrast, simultaneous administration of TPS and FCCP clearly abolished the tBHP-induced Ca2+ release. These results show that tBHP releases Ca2+ from agonist-sensitive intracellular stores and from mitochondria. On the other hand, simultaneous application of FCCP and of 2-aminoethoxydiphenylborane (2-APB), a blocker of IP3-mediated Ca2+ release, was unable to suppress the increase in [Ca2+]c induced by tBHP, while the application of 50 micromol l-1 of ryanodine (which is able to block the ryanodine channels) inhibits tBHP-evoked Ca2+ mobilisation. These findings indicate that tBHP releases Ca2+ from non-mitochondrial Ca2+ pools through ryanodine channels.

140 NB Amor; JA Pariente; GM Salido; JA Rosado; A Bartegi. Thrombin-induced caspases 3 and 9 translocation to the cytoskeleton is independent of changes in cytosolic calcium in human platelets. BLOOD CELLS MOLECULES AND DISEASES. 36 - 3, pp. 392 - 401. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 05/2006. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1079979606000854>. ISSN 1079-9796

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Haematology
Impact index in year of publication: 2.678
Journal in the top 25%: No
Position of publication: 27
No. of journals in the cat.: 61
Source of citations: WOS
Citations: 4

Relevant results: Apoptosis has been shown to be associated with changes in cytosolic free calcium concentration ([Ca(2+)](c)). Here we show that the agonist thrombin induces activation of caspases 9 and 3 and translocation of the caspase active forms and procaspases to the cytoskeleton in human platelets. Dimethyl-BAPTA loading did not affect thrombin-induced caspase 9 and 3 activation or translocation suggesting

that these responses are independent of increases in [Ca(2+)](c). Treatment with thapsigargin plus ionomycin, to induce extensive Ca(2+) store depletion and subsequent increase in [Ca(2+)](c), stimulates caspase activation although it was unable to induce caspase translocation to the cytoskeleton. Similar results were observed in cells loaded with dimethyl-BAPTA, suggesting that activation of caspases 9 and 3 by thapsigargin plus ionomycin does not require rises in [Ca(2+)](c). These findings suggest that thrombin-induced caspase 9 and 3 activation and translocation are independent on rises in [Ca(2+)](c) but might require store depletion in human platelets.

141 JA Rosado; PC Redondo; GM Salido; JA Pariente. Calcium signalling and reactive oxygen species in non-excitable cells. MINI-REVIEWS IN MEDICINAL CHEMISTRY. 6 - 4, pp. 409 - 415. SAIF ZONEBENTHAM SCIENCE PUBL LTD, 04/2006. Available on-line at: <http://www.benthamdirect.org/pages/content.php?MRMC/2006/00000006/00000004/0006N.SGM>. ISSN 1389-5575

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - CHEMISTRY, MEDICINAL
Impact index in year of publication: 3.163
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 35

Source of citations: WOS
Citations: 12

Relevant results: Reactive oxygen species can induce several biological processes by stimulating signal transduction components such as cytosolic free calcium concentration. The physiological significance of the role of biological oxidants in the regulation of calcium signalling pathway as well as the mechanisms of the oxidant-stimulation of signal transduction are discussed in this review

142 JA Rosado; AM Nunez; JA Pariente; GM Salido. Alterations in intracellular calcium homeostasis and platelet aggregation induced by ethanol. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 341 - 4, pp. 917 - 924. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 03/2006. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006291X06001422>. ISSN 0006-291X

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 2.855
Journal in the top 25%: No
Position of publication: 24
No. of journals in the cat.: 66

Source of citations: WOS
Citations: 6

Relevant results: The in vitro effects of ethanol on intracellular Ca(2+) homeostasis and tyrosine phosphorylation have been investigated in human platelets in order to clarify the cellular mechanisms underlying its described anti-aggregant effects. Ethanol (1-50 mM) reduced, in a dose-dependent manner, the rate and amplitude of aggregation and attenuated the phosphotyrosine content both induced by 0.1U/ml of the physiological ligand, thrombin. Thrombin-induced Ca(2+) entry to the cytosol was significantly reduced, and capacitative Ca(2+) entry (CCE) significantly altered, by 50 mM ethanol, so that ethanol reduces CCE mediated by depletion of the 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-sensitive store but enhances CCE induced by the TBHQ-insensitive pool. In conclusion, we provide considerable evidence that ethanol reduces thrombin-induced aggregation, which is likely a result of a significant inhibition of Ca(2+) entry, as well as a reduction in the activity of protein tyrosine kinases.

143 JJ Lopez; PC Redondo; GM Salido; JA Pariente; JA Rosado. Two distinct Ca2+ compartments show differential sensitivity to thrombin, ADP and vasopressin in human. CELLULAR SIGNALLING. 18 - 3, pp. 373 - 381. New York(United States of America): ELSEVIER SCIENCE INC, 03/2006. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656805001087>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 5

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.887
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 156

Source of citations: WOS
Citations: 57

Relevant results: Recent studies propose the existence of two distinct Ca2+ compartments in human platelets based on the expression of different SERCA isoforms with distinct sensitivity to thapsigargin and 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). Using fura-2-loaded human platelets we have found that depletion of the TBHQ sensitive store reduces thrombin--but not ADP--or vasopressin (AVP)-induced Ca2+ release. Redistribution of cytosolic Ca2+ after thrombin stimulation resulted in overloading of the TBHQ-sensitive store. This phenomenon was not observed with ADP or AVP. We found that NAADP decreases the Ca2+ concentration into the stores in permeabilized platelets, which is prevented by depletion of the TBHQ-sensitive store. Nimodipine, an inhibitor of the NAADP receptor, reduced thrombin-induced Ca2+ release from the TBHQ-sensitive stores, without having any effect on the responses elicited by ADP or AVP. Finally, the phospholipase C inhibitor, U-73122, abolished ADP- and AVP-induced Ca2+ release, suggesting that their responses are entirely dependent on IP3 generation. In contrast, treatment with both U-73122 and nimodipine was required to abolish thrombin-induced Ca2+ release. We suggest that thrombin evokes Ca2+ release from TBHQ-sensitive and insensitive stores, which requires both NAADP and IP3, respectively, while ADP and AVP exert an IP3-dependent release of Ca2+ from the TBHQ-insensitive compartment in human platelets.

144 PC Redondo; MT Harper; JA Rosado; SO Sage. A role for cofilin in the activation of store-operated calcium entry by de novo conformational coupling in human platelets. BLOOD. 107 - 3, pp. 973 - 979. WASHINGTON(United States of America): AMER SOC HEMATOLOGY, 02/2006. Available on-line at: <http://bloodjournal.hematologylibrary.org/content/107/3/973.long>. ISSN 0006-4971

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 4

Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 10.370
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 61

Source of citations: WOS
Citations: 39

Relevant results: Store-operated Ca2+ entry (SOCE) is a major mechanism for Ca2+ influx in platelets and other cells. De novo conformational coupling between elements in the plasma membrane and Ca2+ stores, where the actin cytoskeleton plays an important regulatory role, has been proposed as the most likely mechanism to activate SOCE in platelets. Here we have examined for the first time changes in platelet F-actin levels on a subsecond time scale. Using stopped-flow fluorimetry and a quenched-flow approach, we provide evidence for the involvement of cofilin in actin filament reorganization and SOCE in platelets. Thrombin (0.1 U/mL) evoked an initial decrease in F-actin that commenced within 0.1 second and reached a minimum 0.9 second after stimulation, prior to the activation of SOCE. F-actin then increased, exceeding basal levels approximately 2.5 seconds after stimulation. Thrombin also induced cofilin dephosphorylation and activation, which paralleled the changes observed in F-actin, and rapid Btk activation. Inhibition of cofilin dephosphorylation by LFM-A13 resulted in the loss of net actin depolymerization and an increased delay in SOCE initiation. These results suggest that cofilin is important for the rapid actin remodeling necessary for the activation of SOCE in platelets through de novo conformational coupling.

145 N Ben-Amor; PC Redondo; A Bartegi; JA Pariente; GM Salido; JA Rosado. A role for 5,6-epoxyeicosatrienoic acid in calcium entry by de novo conformational coupling in human platelets. JOURNAL OF PHYSIOLOGY-LONDON. 570 - 2, pp. 309 - 323. OXON(United Kingdom): BLACKWELL PUBLISHING, 01/2006. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1464301/>. ISSN 0022-3751

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.407
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 78

Source of citations: WOS
Citations: 21

Relevant results: A major pathway for Ca(2+) entry in non-excitable cells is activated following depletion of intracellular Ca(2+) stores. A de novo conformational coupling between elements in the plasma membrane (PM) and Ca(2+) stores has been proposed as the most likely mechanism to activate this capacitative Ca(2+) entry (CCE) in several cell types, including platelets. Here we report that a cytochrome P450 metabolite, 5,6-EET, might be a component of the de novo conformational coupling in human platelets. In these cells, 5,6-EET induces divalent cation entry without having any detectable effect on Ca(2+) store depletion. 5,6-EET-induced Ca(2+) entry was sensitive to the CCE blockers 2-APB, lanthanum, SKF-96365 and nickel and impaired by incubation with anti-hTRPC1 antibody. Ca(2+) entry stimulated by low concentrations of thapsigargin, which selectively depletes the dense tubular system and induces EET production, was impaired by the cytochrome P450 inhibitor 17-ODYA, which has no effect on CCE mediated by depletion of the acidic stores using 2,5-di-(tert-butyl)-1,4-hydroquinone. We have found that 5,6-EET-induced Ca(2+) entry requires basal levels of H(2)O(2), which might maintain a redox state favourable for this event. Finally, our results indicate that 5,6-EET induces the activation of tyrosine kinase proteins and the reorganization of the actin cytoskeleton, which might provide a support for the transport of portions of the Ca(2+) store towards the PM to facilitate de novo coupling between IP(3)R type II and hTRPC1 detected by coimmunoprecipitation. We propose that the involvement of 5,6-EET in TG-induced coupling between IP(3)R type II and hTRPC1 and subsequently CCE is compatible with the de novo conformational coupling in human platelets.

146 Juan Antonio Rosado; Pedro Cosme REDONDO; José Antonio Pariente; Ginés María Salido. Roles of Calcium and Tyrosine Kinases in the Pathogenesis of Type 2 Diabetes Mellitus. CURRENT ENZYME INHIBITION. 2 - 1, pp. 79 - 89. Illinois(United States of America): Bentham Science Publishers, 2006. Available on-line at: <http://www.benthamdirect.org/pages/b_viewarticle.php?articleID=333>. ISSN 1573-4080

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of review

Relevant results: Diabetes mellitus type 2 is a metabolic disease associated with chronic hyperglycaemia, which leads to a wide range of complications, including microvascular and macrovascular alterations, retinopathy, nephropathy and renal disease or peripheral neuropathy. Several intracellular pathways have been shown to be associated to type 2 diabetes mellitus, ranging from an altered insulin receptor-associated signalling to an abnormal intracellular calcium homeostasis or disturbances in Na+ handling. A number of diabetes-associated complications have been reported to be associated with hyperactivity of certain protein tyrosine kinases, such as those cytosolic kinases of the Src family, involved in the altered intracellular calcium mobilisation and platelet-derived cardiovascular problems and in glomerular injury, or the JAK family of tyrosine kinases involved in hyperglycaemia-induced renal failure. There has been a considerable effort in several laboratories to identify suitable targets for the design of drugs against this disease. The development of tyrosine kinase inhibitors suitable for medical purposes might represent a significant advance in the therapy of complications associated to type 2 diabetes mellitus.

147 GE Woodard; XH Lie; JA Rosado. Characteristics of the renal C-type natriuretic peptide receptor in hypertrophied and developing rat kidney. JOURNAL OF MOLECULAR ENDOCRINOLOGY. 35 - 3, pp. 519 - 530. BRISTOL(United Kingdom): SOC ENDOCRINOLOGY, 12/2005. Available on-line at: <http://jme.endocrinology-journals.org/content/35/3/519.long>. ISSN 0952-5041

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - ENDOCRINOLOGY & METABOLISM
Impact index in year of publication: 2.474
Journal in the top 25%: No
Position of publication: 40
No. of journals in the cat.: 89

Source of citations: WOS
Citations: 4

Relevant results: This study investigates the effect of hypertrophy, using one kidney and one kidney/one clip rats, and development, comparing 3- and 12-week-old rats, on the expression of the 28-amino acid atrial natriuretic peptide (ANP(1-28)) binding sites in rat kidney. Here we report an increased B(max) value of glomerular binding sites for ANP(1-28) and C-type natriuretic peptide 1-22 (CNP(1-22)) in hypertrophied and developing kidney, without modifying their affinity, an effect that was prevented in the presence of the synthetic des[Gln(18), Ser(19), Gly(20), Leu(21), Gly(22)]ANP(4-23)-amide (C-ANF), suggesting that natriuretic peptide receptor (NPR)-C binding sites might be enhanced. The enhanced B(max) was only detected in the high affinity binding site for CNP(1-22), which has been identified as the 67 kDa NPR-C-like protein. A similar effect was observed in renal glomeruli from 3-week-old rats compared with 12-week-old rats. Our results indicate that ANP(1-28), CNP(1-22) and C-ANF inhibited cAMP synthesis stimulated by the physiological agonists histamine and 5-hydroxytryptamine or directly by forskolin. The inhibitory effect was found to be significantly greater in 1-kidney and 1-kidney/1-clip rats than in controls, and in 3-week-old rats compared with 12-week-old rats. Our observations suggest that this effect must be attributed to the 67 kDa NPR-C-like protein due to the enhanced B(max) values and the reported inhibitory role for this receptor on adenylyl cyclase activity. The enhanced inhibitory role of natriuretic peptides on cAMP synthesis in hypertrophied and developing kidney may influence glomerular function in the rat kidney and suggests a role for the 67 kDa NPR-C-like protein in growth.

148 PC Redondo; JA Rosado; JA Pariente; GM Salido. Collaborative effect of SERCA and PMCA in cytosolic calcium homeostasis in human platelets. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 61 - 4, pp. 507 - 516. PAMPLONA(Spain): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 12/2005. Available on-line at: <http://link.springer.com/article/10.1007/BF03168376?null>. ISSN 1138-7548

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 0.934
Journal in the top 25%: No
Position of publication: 221
No. of journals in the cat.: 261
Source of citations: WOS
Citations: 5

Relevant results: Intracellular free Ca2+ concentration ([Ca2+]c) is finely regulated by several mechanisms that either increase or reduce [Ca2+]c. Two different Ca2+ pumps have been described so far as the main mechanisms for Ca2+ removal from the cytosol, either by its sequestration into the stores, mediated by the sarco(endo)plasmic reticulum Ca2+-ATPase (SERCA) or by Ca2+ extrusion to the extracellular medium, by the plasma membrane Ca2+-ATPase (PMCA). We have used inhibitors of these pumps to analyze their Ca2+ clearance efficacy in human platelets stimulated by the physiological agonist thrombin. Results demonstrate that, after platelet stimulation with thrombin, activation of SERCA precedes that of PMCA, although the ability of PMCA to remove Ca2+ from the cytosol last longer than that of SERCA. The efficacy of SERCA and PMCA removing Ca2+ from the cytosol is reduced when the concentration of thrombin increases. This phenomenon correlates with the greater increase in [Ca2+]c induced by higher concentrations of thrombin, which further confirms that SERCA and PMCA activities are regulated by [Ca2+]c.

149 JA Rosado; PC Redondo; SO Sage; JA Pariente; GM Salido. Store-operated Ca2+ entry: Vesicle fusion or reversible trafficking and de novo conformational coupling?. JOURNAL OF CELLULAR PHYSIOLOGY. 205 - 2, pp. 262 - 269. HOBOKEN(United States of America): WILEY-LISS, 11/2005. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1002/jcp.20399/abstract;jsessionid=D346C17DC272240BC6365995349815A7.d03t04>. ISSN 0021-9541

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.362
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 75
Source of citations: WOS
Citations: 43

Relevant results: Store-operated Ca2+ entry (SOCE), a mechanism regulated by the filling state of the intracellular Ca2+ stores, is a major pathway for Ca2+ influx. Hypotheses to explain the communication between the Ca2+ stores and plasma membrane (PM) have considered both the existence of small messenger molecules, such as a Ca2+-influx factor (CIF), and both stable and de novo conformational coupling between proteins in the Ca2+ store and PM. Alternatively, a secretion-like coupling model based on vesicle fusion and channel insertion in the PM has been proposed, which shares some properties with the de novo conformational coupling model, such as the role of the actin cytoskeleton and soluble N-ethylmaleimide (NEM)-sensitive-factor attachment proteins receptor (SNARE) proteins. Here we review recent progress made in the characterization of the de novo conformational coupling and the secretion-like coupling models for SOCE. We pay particular attention into the involvement of SNARE proteins and the actin cytoskeleton in both SOCE models. SNAREs are recognized as proteins involved in exocytosis, participating in vesicle transport, membrane docking, and fusion. As with secretion, a role for the cortical actin network in Ca2+ entry has been demonstrated in a number of cell types. In resting cells, the cytoskeleton may prevent the interaction between the Ca2+ stores and the PM, or preventing fusion of vesicles containing Ca2+ channels with the PM. These are processes in which SNARE proteins might play a crucial role upon cell activation by directing a precise interaction between the membrane of the transported organelle and the PM.

150 A Juska; PC Redondo; JA Rosado; GM Salido. Dynamics of calcium fluxes in human platelets assessed in calcium-free medium. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 334 - 3, pp. 779 - 786. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 09/2005. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006291X05014944>. ISSN 0006-291X

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 3
Journal in the top 25%: No
Position of publication: 97
No. of journals in the cat.: 261
Source of citations: WOS
Citations: 10

Relevant results: Dynamics of changes in cytosolic calcium concentration resulting from facilitation of calcium leakage from the stores and (or) blocking the pathways of its reuptake back into the stores or extrusion out of the cell (or both) have been investigated experimentally. It has been found that: (a) no mechanisms other than the membrane leakage, PMCA or SERCA, are involved in the discharge of calcium stores and calcium extrusion or reuptake; (b) the discharge of calcium stores in the absence of both its extrusion and reuptake back into the stores depends only on membrane leakage, the asymptotic calcium concentration in cytosol depending only on the initial content of the stores and being independent of the leakage; (c) the dynamics of the activity of both PMCA and SERCA depend on the initial rate of calcium influx, the dynamics differing from each other at high initial rates of calcium influx; (d) whereas there is no observable background activity of PMCA, background activity of SERCA is observed.

151 JJ Lopez; C Camello-Almaraz; JA Pariente; GM Salido; JA Rosado. Ca2+ accumulation into acidic organelles mediated by Ca2+- and vacuolar H+-ATPases in human platelets. BIOCHEMICAL JOURNAL. 390 - Part 1, pp. 243 - 252. London, Inner London(United Kingdom): PORTLAND PRESS LTD, 08/2005. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1188269/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.224
Journal in the top 25%: Yes
Position of publication: 62
No. of journals in the cat.: 261
Source of citations: WOS
Citations: 68

Relevant results: Most physiological agonists increase cytosolic free [Ca2+]c (cytosolic free Ca2+ concentration) to regulate a variety of cellular processes. How different stimuli evoke distinct spatiotemporal Ca2+ responses remains unclear, and the presence of separate intracellular Ca2+ stores might be of great functional relevance. Ca2+ accumulation into intracellular compartments mainly depends on the activity of Ca2+- and H+-ATPases. Platelets present two separate Ca2+ stores differentiated by the distinct sensitivity to thapsigargin and TBHQ [2,5-di-(t-butyl)-1,4-hydroquinone]. Although one store has long been identified as the dense tubular system, the nature of the TBHQ-sensitive store remains uncertain. Treatment of platelets with GPN (glycylphenylalanine-2-naphthylamide) impaired Ca2+ release by TBHQ and reduced that evoked by thrombin. In contrast, GPN did not modify Ca2+ mobilization stimulated by ADP or AVP ([arginine]vasopressin). Treatment with nigericin, a proton carrier, and bafilomycin A1, an inhibitor of the vacuolar H+-ATPase, to dissipate the proton gradient into acidic organelles induces a transient increase in [Ca2+]c that was abolished by previous treatment with the SERCA (sarcoplasmic/endoplasmic-reticulum Ca2+-ATPase) 3 inhibitor TBHQ. Depleted acidic stores after nigericin or bafilomycin A1 were refilled by SERCA 3. Thrombin, but not ADP or AVP, reduces the rise in [Ca2+]c evoked by nigericin and bafilomycin A1. Our results indicate that the TBHQ-sensitive store in human platelets is an acidic organelle whose Ca2+ accumulation is regulated by both Ca2+- and vacuolar H+-ATPases.

152 PC Redondo; N Ben-Amor; GM Salido; A Bartegi; JA Pariente; JA Rosado. Ca2+-independent activation of Bruton's tyrosine kinase is required for store-mediated Ca2+ entry in human platelets. CELLULAR SIGNALLING. 17 - 8, pp. 1011 - 1021. New York(United States of America): ELSEVIER SCIENCE INC, 08/2005. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656804002682>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.398
Journal in the top 25%: No
Position of publication: 40
No. of journals in the cat.: 153
Source of citations: WOS
Citations: 32

Relevant results: Store-mediated Ca(2+) entry (SMCE), which is rapidly activated by depletion of the intracellular Ca(2+) stores, is a major mechanism for Ca(2+) influx. Several studies have involved tyrosine kinases in the activation of SMCE, such as pp60(src), although at present those involved in the early activation steps are unknown. Here we report the involvement of Bruton's tyrosine kinase (Btk) in the early stages of SMCE in human platelets. Cell treatment with thrombin or thapsigargin (TG) plus ionomycin (Iono) results in rapid activation of Btk, which was independent of rise in intracellular Ca(2+) concentration ([Ca(2+)](i)) but dependent on H(2)O(2) generation. Platelet treatment with Btk inhibitors, LFM-A13 or terreic acid, significantly reduced TG+Iono- and thrombin-evoked SMCE. Btk was rapidly activated by addition of low concentrations of H(2)O(2), whose effect on Ca(2+) entry was prevented by Btk inhibitors. Our results indicate that pp60(src) and Btk co-immunoprecipitate after platelet stimulation with TG+Iono, thrombin or H(2)O(2). In addition, we have found that LFM-A13 impaired actin filament reorganization after store depletion and agonist-induced activation of pp60(src), while the inhibitor of pp60(src), a protein that requires actin reorganization for its activation, did not modify Btk activation, suggesting that Btk is upstream of pp60(src). We propose a role for Btk in the early steps of activation of SMCE in human platelets.

153 PC Redondo; I Jardin; JM Hernandez-Cruz; JA Pariente; GM Salido; JA Rosado. Hydrogen peroxide and peroxynitrite enhance Ca2+ mobilization and aggregation in platelets from type 2 diabetic patients. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 333 - 3, pp. 794 - 802. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 08/2005. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006291X05011976>. ISSN 0006-291X

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 3
Journal in the top 25%: No
Position of publication: 97
No. of journals in the cat.: 261

Source of citations: WOS **Citations:** 53

Relevant results: Cytosolic Ca2+ mobilization, especially Ca2+ entry, is enhanced in platelets from type 2 diabetic individuals, which might result in platelet hyperaggregability. In the present study, we report an increased oxidant production in resting and stimulated platelets from diabetic donors. Pretreatment of platelets with catalase or trolox, an analog of vitamin E, reversed the enhanced Ca2+ entry, evoked by thapsigargin plus ionomycin or thrombin, observed in platelets from diabetic subjects, so that in the presence of these scavengers Ca2+ entry was similar in platelets from healthy and diabetic subjects. In contrast, mannitol was without effect on Ca2+ mobilization. Catalase and trolox reduced thrombin-induced aggregation in platelets from type 2 diabetic subjects, while mannitol did not modify thrombin-induced platelet hyperaggregability. We conclude that H2O2 and ONOO- are likely involved in the enhanced Ca2+ mobilization observed in platelets from type 2 diabetic patients, which might lead to platelet hyperactivity and hyperaggregability.

154 GE Woodard; XH Li; JA Rosado. Receptor subtypes for vasonatrin peptide in renal glomeruli and arteries. REGULATORY PEPTIDES. 129 - 1-3, pp. 183 - 189. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 07/2005. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167011505000686>. ISSN 0167-0115

Type of production: Scientific paper **Format:** Journal
Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - PHYSIOLOGY
Impact index in year of publication: 2.272 **Journal in the top 25%:** No
Position of publication: 34 **No. of journals in the cat.:** 75

Source of citations: WOS **Citations:** 7

Relevant results: Vasonatrin peptide (VNP) is a synthetic new member of the natriuretic peptide family. VNP is a chimera of CNP and ANP, which possesses the 22-amino acid ringed structure of CNP and the COOH terminus of ANP. VNP shares properties with ANP and CNP but also shows functional characteristics distinct from those induced by the original natriuretic peptides. This study investigates VNP binding to specific sites in the kidney and femoral artery, in order to clarify the nature of the receptors through which VNP exerts its effects. Using autoradiographic techniques we have found that VNP binds to renal and arterial tissue sections. VNP binding was displaced by incubation in the presence of 1 microM ANP(1-28), CNP(1-22) and C-ANP, which suggests that VNP mostly binds to NPR-C. Cross-linking studies performed in rat glomerular membranes confirmed that VNP mainly binds to the 67 kDa-NPR-C-like protein and also to NPR-A. Consistent with this, our results indicate that VNP inhibits cAMP synthesis stimulated by the physiological agonist histamine in a concentration-dependent manner, without having any effect on basal cAMP production. Finally, we have found that VNP increases cGMP production in rat renal glomeruli, suggesting that this peptide functionally binds to NPR-A.

155 S Morales; PJ Camello; JA Rosado; GM Mawe; MJ Pozo. Disruption of the filamentous actin cytoskeleton is necessary for the activation of capacitative calcium entry in naive smooth muscle cells. CELLULAR SIGNALLING. 17 - 5, pp. 635 - 645. New York(United States of America): ELSEVIER SCIENCE INC, 05/2005. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656804002220>. ISSN 0898-6568

Type of production: Scientific paper **Format:** Journal
Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.398 **Journal in the top 25%:** No
Position of publication: 40 **No. of journals in the cat.:** 153

Source of citations: WOS **Citations:** 14

Relevant results: It has been proposed that cytoskeleton plays a key positive role in the activation of capacitative calcium entry (CCE), which supported the secretion-like hypothesis for the mechanisms underlying this process. However, its role on CCE in native smooth muscle is unknown. Here we demonstrate that CCE in isolated gallbladder myocytes was enhanced by cytochalasin D or latrunculin A treatments (agents that cause actin disassembly) whereas it was reduced by jasplakinolide treatment (which causes actin polymerization), suggesting that actin cytoskeleton acts as a barrier in CCE. In addition, we show for the first time that depletion of intracellular

Ca2+ stores by thapsigargin and cholecystokinin in BAPTA-loaded cells induced a decrease in F-actin content that was consistent with a link between CCE and actin reorganization. In conclusion, these data suggest an active participation of actin reorganization in the implementation of CCE and support a conformational coupling model for this process in naive smooth muscle cells.

156 JA Rosado; PC Redondo; GM Salido; SO Sage; JA Pariente. Cleavage of SNAP-25 and VAMP-2 impairs store-operated Ca2+ entry in mouse pancreatic acinar cells. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. 288 - 1, pp. C214 - C221. BETHESDA(United States of America): AMER PHYSIOLOGICAL SOC, 01/2005. Available on-line at: <http://ajpcell.physiology.org/content/288/1/C214.long>. ISSN 0363-6143

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 3.942
Journal in the top 25%: Yes
Position of publication: 14
No. of journals in the cat.: 75
Source of citations: WOS
Citations: 6

Relevant results: We recently reported that store-operated Ca(2+) entry (SOCE) in nonexcitable cells is likely to be mediated by a reversible interaction between Ca(2+) channels in the plasma membrane and the endoplasmic reticulum, a mechanism known as "secretion-like coupling." As for secretion, in this model the actin cytoskeleton plays a key regulatory role. In the present study we have explored the involvement of the secretory proteins synaptosome-associated protein (SNAP-25) and vesicle-associated membrane protein (VAMP) in SOCE in pancreatic acinar cells. Cleavage of SNAP-25 and VAMPs by treatment with botulinum toxin A (BoNT A) and tetanus toxin (TeTx), respectively, effectively inhibited amylase secretion stimulated by the physiological agonist CCK-8. BoNT A significantly reduced Ca(2+) entry induced by store depletion using thapsigargin or CCK-8. In addition, treatment with BoNT A once SOCE had been activated reduced Ca(2+) influx, indicating that SNAP-25 is needed for both the activation and maintenance of SOCE in pancreatic acinar cells. VAMP-2 and VAMP-3 are expressed in mouse pancreatic acinar cells. Both proteins associate with the cytoskeleton upon Ca(2+) store depletion, although only VAMP-2 seems to be sensitive to TeTx. Treatment of pancreatic acinar cells with TeTx reduced the activation of SOCE without affecting its maintenance. These findings support a role for SNAP-25 and VAMP-2 in the activation of SOCE in pancreatic acinar cells and show parallels between this process and secretion in a specialized secretory cell type.

157 FR Saavedra; PC Redondo; JM Hernandez-Cruz; GM Salido; JA Pariente; JA Rosado. Store-operated Ca2+ entry and tyrosine kinase pp60(src) hyperactivity are modulated by hyperglycemia in platelets from patients with non insulin-dependent diabetes mellitus. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 432 - 2, pp. 261 - 268. New York(United States of America): ELSEVIER SCIENCE INC, 12/2004. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986104005624>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 2.657
Journal in the top 25%: No
Position of publication: 116
No. of journals in the cat.: 261
Source of citations: WOS
Citations: 29

Relevant results: We have investigated the involvement of store-operated Ca(2+) entry (SOCE) in the abnormal platelet Ca(2+) homeostasis in patients with non insulin-dependent diabetes mellitus (NIDDM). In a medium containing 180 mg/dL glucose, platelets from NIDDM patients showed an increased SOCE compared to controls. We found that tyrosine phosphorylation was elevated in platelets from NIDDM patients. Consistent with this, the activity of the tyrosine kinase pp60(src) is enhanced in platelets from diabetic patients. When the experiments were performed in a medium containing 90 mg/dL both, SOCE and pp60(src) activity, were similar to those found in control platelets. Our results indicate that SOCE is altered in platelets from NIDDM patients probably due to the increased activity of the tyrosine kinase pp60(src). Both, SOCE and pp60(src) activity in platelets from

NIDDM patients are more susceptible to the extracellular glucose concentration, which seems to be involved in the dysfunction of these mechanisms.

158 JA Rosado; FR Saavedra; PC Redondo; JM Hernandez-Cruz. Reduced plasma membrane Ca 2(+)-ATPase function in platelets from patients with non-insulin-dependent diabetes mellitus. HAEMATOLOGICA. 89 - 9, pp. 1142 - 1144. PAVIA(Italy): FERRATA STORTI FOUNDATION, 09/2004. Available on-line at: <http://www.haematologica.org/content/89/9/1142.long>. ISSN 0390-6078

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 4.192
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 62
Source of citations: WOS
Citations: 29

Relevant results: We clearly show that plasma membrane Ca2+ ATPase (PMCA) activity is lower in platelets from patients with non-insulin-dependent diabetes mellitus (NIDDM) than in those from healthy controls. The lower activity is likely due to reduced PMCA expression and increased tyrosine phosphorylation. These findings provide an explanation for the cellular ionic defects occurring in insulin resistant conditions.

159 GE Woodard; XH Li; JA Rosado. Water deprivation enhances the inhibitory effect of natriuretic peptides on cAMP synthesis in rat renal glomeruli. AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY. 287 - 3, pp. F418 - F426. BETHESDA(United States of America): AMER PHYSIOLOGICAL SOC, 09/2004. Available on-line at: <http://ajprenal.physiology.org/content/287/3/F418.long>. ISSN 1931-857X

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.354
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 74
Source of citations: WOS
Citations: 6

Relevant results: This study investigates the effect of water deprivation on the expression of atrial natiruretic peptide (ANP)(1-28) binding sites in rat kidney. Water deprivation increased the B(max) of glomerular binding sites for ANP(1-28) and C-type natriuretic peptide (CNP)(1-22) without modifying their affinity, an effect that was prevented in the presence of C-atrial natriuretic factor (C-ANF), suggesting that natriuretic peptide receptor-C (NPR-C) binding sites might be enhanced. Our results indicate that ANP(1-28), CNP(1-22), and C-ANF inhibit cAMP synthesis directly stimulated by forskolin or by the physiological agonists histamine and 5-hydroxytryptamine. The inhibitory effect was found to be significantly greater in water-deprived rats than in controls. Our observations suggest that this effect must be attributed to the 67-kDa NPR-C-like protein, because the 67- and 77-kDa NPR-C-like proteins show high and low affinities for CNP(1-22), respectively, and the enhanced inhibitory effect of CNP on cAMP generation in water-deprived rats was detected at subnanomolar concentrations. In addition, using affinity cross-linking studies we have observed that water deprivation increases the expression of the 67-kDa NPR-C-like protein, and HS-142, which binds to NPR-A and the 77-kDa NPR-C-like but not the 67-kDa protein, reduced ligand internalization without affecting cAMP inhibition by ANP(1-28). Finally, we have found that ligand binding to the 67-kDa NPR-C-like protein is reduced by GTPgammaS, suggesting that this receptor is associated with a G protein in renal glomeruli. The enhanced inhibitory role of natriuretic peptides on cAMP synthesis induced by water deprivation may influence glomerular function in the rat kidney.

160 Juan Antonio Rosado; Pedro Cosme Redondo; José Antonio Pariente; Ginés María Salido. Calcium signalling and tumorigenesis. Cancer Therapy. 2, pp. 263 - 270. Athens(Greece): Gene Therapy Press, 08/2004. Available on-line at: <http://www.cancer-therapy.org/CT/v2/A/30.%20Rosado%20et%20al,%20263-270%20.pdf>. ISSN 1543-9135

Type of production: Scientific paper
Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of review

Relevant results: Ca2+ is a ubiquitous and versatile intracellular messenger that regulates many different cellular processes such as contraction, secretion, fertilisation and proliferation. Cells increase the cytosolic Ca2+ concentration by releasing Ca2+ from internal stores or by opening Ca2+ channels in the plasma membrane to allow extracellular Ca2+ to enter. Several pumps and exchangers are responsible for returning the elevated levels of cytosolic Ca2+ back to the resting state when the stimulus is terminated. The mitochondrion also plays an important role in that it is involved in the removal process by taking Ca2+ up from the cytosol, which might then be slowly released. The Ca2+ signalling systems are constantly being remodelled in both health and disease, and a disorder in Ca2+ homeostasis has been reported in tumoral cells. This review summarises the mechanisms that regulate intracellular Ca2+ homeostasis and the alterations in the Ca2+ transport systems that are involved in the development of tumorigenesis.

161 PC Redondo; AGS Harper; GM Salido; JA Pariente; SO Sage; JA Rosado. A role for SNAP-25 but not VAMPs in store-mediated Ca2+ entry in human platelets. JOURNAL OF PHYSIOLOGY-LONDON. 558 - 1, pp. 99 - 109. OXON(United Kingdom): BLACKWELL PUBLISHING LTD, 07/2004. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1664928/>. ISSN 0022-3751

Type of production: Scientific paper **Format:** Journal

Position of signature: 6 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - PHYSIOLOGY

Impact index in year of publication: 4.346 **Journal in the top 25%:** Yes

Position of publication: 8 **No. of journals in the cat.:** 74

Source of citations: WOS **Citations:** 22

Relevant results: Store-mediated Ca2+ entry (SMCE) is a major mechanism for Ca2+ influx in non-excitable cells. Recently, a conformational coupling mechanism allowing coupling between transient receptor potential channels (TRPCs) and IP3 receptors has been proposed to activate SMCE. Here we have investigated the role of two soluble N-ethylmaleimide-sensitive-factor attachment protein receptors (SNAREs), which are involved in membrane trafficking and docking, in SMCE in human platelets. We found that the synaptosome-associated protein (SNAP-25) and the vesicle-associated membrane proteins (VAMP) coimmunoprecipitate with hTRPC1 in platelets. Treatment with botulinum toxin (BoNT) E or with tetanus toxin (TeTx), induced cleavage and inactivation of SNAP-25 and VAMPs, respectively. BoNTs significantly reduced thapsigargin- (TG) and agonist-evoked SMCE. Treatment with BoNTs once SMCE had been activated decreased Ca2+ entry, indicating that SNAP-25 is required for the activation and maintenance of SMCE. In contrast, treatment with TeTx had no effect on either the activation or the maintenance of SMCE in platelets. Finally, treatment with BoNT E impaired the coupling between naturally expressed hTRPC1 and IP3 receptor type II in platelets. From these findings we suggest SNAP-25 has a role in SMCE in human platelets.

162 JA Rosado; JJ Lopez; AGS Harper; MT Harper; PC Redondo; JA Pariente; SO Sage; GM Salido. Two pathways for store-mediated calcium entry differentially dependent on the actin cytoskeleton in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 279 - 28, pp. 29231 - 29235. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 07/2004. Available on-line at: <http://www.jbc.org/content/279/28/29231.long>. ISSN 0021-9258

Type of production: Scientific paper **Format:** Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 6.355 **Journal in the top 25%:** Yes

Position of publication: 31 **No. of journals in the cat.:** 261

Source of citations: WOS **Citations:** 29

Relevant results: A major pathway for stimulated Ca(2+) entry in non-excitable cells is activated following depletion of intracellular Ca(2+) stores. Secretion-like coupling between elements in the plasma membrane (PM) and Ca(2+) stores has been proposed as the most likely mechanism to activate this store-mediated Ca(2+)

entry (SMCE) in several cell types. Here we identify two mechanisms for SMCE in human platelets activated by depletion of two independent Ca(2+) pools, which are differentially modulated by the actin cytoskeleton. Ca(2+) entry induced by depletion of a 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-sensitive pool is increased by disassembly of the actin cytoskeleton and that induced by a TBHQ-insensitive pool is reduced. Stabilization of the actin cytoskeleton prevented Ca(2+) entry by both mechanisms. We propose that the membrane-associated actin network prevents constitutive Ca(2+) entry via both pathways. Reorganization of the actin cytoskeleton permits the activation of Ca(2+) entry via both mechanisms, but only SMCE activated by the TBHQ-insensitive pool requires new actin polymerization, which may support membrane trafficking toward the PM.

163 MA Martinez; AI Lajas; MD Yago; PC Redondo; MP Granados; A Gonzalez; JA Rosado; E Martinez-Victoria; M Manas; JA Pariente. Dietary virgin olive oil enhances secretagogue-evoked calcium signaling in rat pancreatic acinar cells. NUTRITION. 20 - 6, pp. 536 - 541. NEW YORK(United States of America): ELSEVIER SCIENCE INC, 06/2004. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0899900704000814>. ISSN 0899-9007

Type of production: Scientific paper
Format: Journal
Position of signature: 7
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - NUTRITION & DIETETICS
Impact index in year of publication: 1.958
Journal in the top 25%: No
Position of publication: 19
No. of journals in the cat.: 53
Source of citations: WOS
Citations: 5

Relevant results: OBJECTIVE: We evaluated the long-term effects of a fat-enriched diet (virgin olive oil) on calcium mobilization and amylase secretion induced by cholecystokinin-octapeptide (CCK-8) in rat pancreatic acinar cells. Olive oil is a major component of the Mediterranean diet, and its role in human health is actively being debated. METHODS: Weaning male Wistar rats (21 d old) were assigned to one of two experimental groups and fed for 8 wk with a commercial chow (control group) or an experimental diet (olive group) containing 100 g/kg of virgin olive oil as dietary fat. Intracellular free calcium [Ca(2+)](i) levels were determined by loading the pancreatic cells with the fluorescent ratio-metric calcium indicator Fura-2 on an inverted fluorescent microscope. For measurement of amylase secretion, cells were incubated with the appropriate secretagogue for 30 min, and amylase activities in the supernatant were determined by the Phadebas blue starch method. Analysis of variance was used to test differences between groups. RESULTS: Compared with the control group, the CCK-8-induced increase in [Ca(2+)](i) occurred in cells from rats in the olive group ($P < 0.05$). This stimulatory effect of dietary virgin olive oil was observed in calcium oscillations and large [Ca(2+)](i) transients induced by low (20 pM/L) and high (10 nM/L) concentrations of CCK-8, respectively. In addition to the effects of dietary virgin olive oil on calcium mobilization, it increased ($P < 0.05$) amylase secretion in response to CCK-8. Olive oil treatment did not significantly alter resting [Ca(2+)](i) or amylase release values compared with the control group. Similar results were obtained when pancreatic acinar cells were stimulated with a high concentration of acetylcholine (10 microM/L). CONCLUSION: The present results demonstrate that a diet supplemented with virgin olive oil can modify pancreatic cell function as assessed by [Ca(2+)](i) mobilization and amylase release evoked by secretagogues in rat pancreatic acinar cells. A role for fatty acids in calcium signaling is suggested.

164 GE Woodard; J Zhao; JA Rosado; J Brown. Patterning of renal cGMP production by the natriuretic peptide receptor type A and blood pressure in spontaneously hypertensive rats. REGULATORY PEPTIDES. 119 - 1-2, pp. 45 - 51. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 06/2004. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167011503003082>. ISSN 0167-0115

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 2.531
Journal in the top 25%: No
Position of publication: 24
No. of journals in the cat.: 74
Source of citations: WOS
Citations: 5

Relevant results: Although important advances have been made over past decades in studying the mechanisms of hypertension, the nature of cellular signaling patterns involved and their relationship remain unclear. High cGMP production rates in isolated renal glomeruli have been presented as a characteristic of spontaneously hypertensive rat (SHR) even before the development of hypertension, which suggests that this event might be a cause of the increase in blood pressure. Using cross-breeding between SHR and WKY parental strains to obtain F1 and F2 hybrids, we have investigated the patterning of high blood pressure and cGMP production rates. We have found that, in the F2 population, the mean blood pressure and both basal and ANP(1-28)-stimulated cGMP production are similar to the parental SHR. In addition, we have found a positive correlation between blood pressure and high cGMP production rates in the F2 population. The higher cGMP production was not a consequence of hypertension, since in DOCA-salt hypertensive rats cGMP production was similar to that observed in normotensive WKY rats. These observations suggest that high cGMP production is a characteristic linked to hypertension. Finally, reciprocal crosses between the SHR and WKY parental strains showed that in the F1 population blood pressure but not cGMP production are associated with the Y chromosome.

165 PC Redondo; GM Salido; JA Pariente; JA Rosado. Dual effect of hydrogen peroxide on store-mediated calcium entry in human platelets. BIOCHEMICAL PHARMACOLOGY. 67 - 6, pp. 1065 - 1076. OXFORD(United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 03/2004. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006295203008591>. ISSN 0006-2952

Type of production: Scientific paper
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 3.436
Journal in the top 25%: Yes
Position of publication: 38
No. of journals in the cat.: 187
Source of citations: WOS
Citations: 46

Relevant results: Redox regulation is important for the modulation of cytosolic Ca(2+) concentration. Hence, we have investigated the effect of H(2)O(2) on store-mediated Ca(2+) entry (SMCE). In fura-2-loaded human platelets treatment with H(2)O(2) resulted in a concentration-dependent increase in Ca(2+) release from intracellular stores, while the effect on Ca(2+) entry was biphasic. In addition, 1mM H(2)O(2) reduced SMCE induced by agonists. The inhibitory effect of 1mM H(2)O(2) was prevented by inhibition of actin polymerization with cytochalasin D. Consistent with this, we found that 10microM H(2)O(2) and store depletion by treatment with thapsigargin plus ionomycin induced a similar temporal sequence of actin reorganization, while exposure to 1mM H(2)O(2) shifted the dynamics between polymerization and depolymerization in favor of the former. One millimolar H(2)O(2)-induced polymerization was reduced by treatment with methyl 2,5-dihydroxycinnamate and farnesylthioacetic acid, inhibitors of tyrosine kinases and Ras superfamily proteins, respectively. Finally, exposure to 1mM H(2)O(2) significantly increased store depletion-induced p60(src) activation. We conclude that H(2)O(2) exerted a biphasic effect on SMCE. The inhibitory role of high H(2)O(2) concentrations is mediated by an abnormal actin reorganization pattern involving both Ras- and tyrosine kinases-dependent pathways.

166 PC Redondo; GM Salido; JA Rosado; JA Pariente. Effect of hydrogen peroxide on Ca2+ mobilisation in human platelets through sulphydryl oxidation dependent and independent mechanisms. BIOCHEMICAL PHARMACOLOGY. 67 - 3, pp. 491 - 502. OXFORD(United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 02/2004. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0006295203007676>. ISSN 0006-2952

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 3.436
Journal in the top 25%: Yes
Position of publication: 38
No. of journals in the cat.: 187
Source of citations: WOS
Citations: 58

Relevant results: Using Fura-2-loaded human platelets we studied the nature of the mechanisms involved in Ca2+ signalling mediated by H2O2. In a Ca2+-free medium, H2O2 (10 microM-100 mM) induced a concentration-dependent increase in [Ca2+]i. Depletion of either agonist-sensitive or mitochondrial Ca2+ pools reduced this effect while depletion of both stores abolished it. Xestospongin C, an inositol 1,3,5-trisphosphate (IP3) receptor inhibitor, reduced Ca2+ release evoked by 1 mM H2O2 by 45%, indicating that H2O2-induced Ca2+ release involves interaction with IP3 receptors. Blockade of the IP3 turnover by lithium or treatment with U-73122 did not modify H2O2-induced Ca2+ release from the agonist-sensitive pool, suggesting the involvement of a mechanism independent of IP3 generation. H2O2 inhibited Ca2+ reuptake into the agonist-sensitive stores mediated by the sarcoendoplasmic reticulum Ca2+ ATPase (SERCA). Thimerosal (5 microM), a sulphydryl reagent, induced Ca2+ release from the agonist-sensitive stores. This event was impaired by treatment with 2 mM DTT, which also inhibited H2O2-induced Ca2+ release from the agonist-sensitive pool but not from mitochondria. H2O2 reduced the ability of the plasma membrane Ca2+ ATPase (PMCA) to extrude Ca2+ by 75%, an effect that was unaffected by DTT. Consistent with this, thimerosal did not modify the PMCA activity. Finally, exposure to H2O2 triggered platelet aggregation, which was slower than that observed after agonist stimulation. We conclude that H2O2 induced Ca2+ release from agonist-sensitive stores by oxidation of sulphydryl groups in SERCA and the IP3 receptors independently of IP3 generation. In addition, H2O2 induced Ca2+ release from mitochondria and inhibited the PMCA activity by different mechanisms in human platelets.

167 JA Rosado; PC Redondo; GM Salido; E Gomez-Arteta; SO Sage; JA Pariente. Hydrogen peroxide generation induces pp60(src) activation in human platelets - Evidence for the involvement of this pathway in store-mediated calcium entry. JOURNAL OF BIOLOGICAL CHEMISTRY. 279 - 3, pp. 1665 - 1675. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/2004. Available on-line at: <http://www.jbc.org/content/279/3/1665.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 6.355
Journal in the top 25%: Yes
Position of publication: 31
No. of journals in the cat.: 261
Source of citations: WOS
Citations: 92

Relevant results: Reactive oxygen species, such as H2O2, have been recognized as intracellular messengers involved in several cell functions. Here we report the activation of the tyrosine kinase pp60(src) by H2O2, a mechanism required for the activation of store-mediated Ca2+ entry (SMCE) in human platelets. Treatment of platelets with H2O2 resulted in a time- and concentration-dependent activation of pp60(src). Incubation with GF 109203X, a protein kinase C (PKC) inhibitor, prevented H2O2-induced pp60(src) activation. In contrast, dimethyl-BAPTA loading did not affect this response, suggesting that activation of pp60(src) by H2O2 is independent of increases in [Ca2+](i). Cytochalasin D, an inhibitor of actin polymerization, significantly reduced H2O2-induced pp60(src) activation. We found that platelet stimulation with thapsigargin (TG) plus ionomycin (Iono) or thrombin induced rapid H2O2 production, a mechanism independent of elevations in [Ca2+](i). Treatment of platelets with catalase attenuated TG plus Iono- and thrombin-induced activation of pp60(src). In addition, catalase as well as the pp60(src) inhibitor, PP1, reduced both the activation of SMCE and the coupling between the hTrp1 and the IP(3)R type II without having any effect on the maintenance of SMCE. Consistent with the role of PKC in the activation of pp60(src) by H2O2, the PKC inhibitors GF 109202X and Ro-31-8220 were found to reduced SMCE in platelets. This study suggests that platelet activation with TG plus Iono or thrombin is associated with H2O2 production, which acts as a second messenger by stimulating pp60(src) by a PKC-dependent pathway and is involved in the activation of SMCE in these cells.

168 GE Woodard; J Zhao; JA Rosado; J Brown. Differences between natriuretic peptide receptors in the olfactory bulb and hypothalamus from spontaneously hypertensive and normotensive rat brain. NEUROSCIENCE RESEARCH. 47 - 4, pp. 421 - 429. CLARE(Ireland): ELSEVIER SCI IRELAND LTD, 12/2003. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S016801020300244Xi>. ISSN 0168-0102

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - NEUROSCIENCES
Impact index in year of publication: 2.200
Journal in the top 25%: No
Position of publication: 97
No. of journals in the cat.: 198

Source of citations: WOS
Citations: 9

Relevant results: Natriuretic peptide receptor-A (NPR-A) functional characteristics in the hypothalamus and olfactory bulb (OB) have been investigated in spontaneously hypertensive rats (SHR) and normotensive Wistar-Kyoto rats (WKY). Autoradiographic studies demonstrate a decreased number of atrial natriuretic peptide (ANP) binding sites in the olfactory bulb and hypothalamus in SHR compared to WKY rats. We found that NPR-A showed a lower maximal binding capacity (B(max)) and higher affinity in SHR than in WKY rats both in the olfactory bulb and hypothalamus. However, despite the lower B(max) in SHR, both ANP(1-28) and ANP(5-25) stimulated similar or greater cGMP production than in WKY rats. These differences were found even before the development of hypertension. NPR-A in the olfactory bulb and hypothalamus from 3-week-old SHR showed a lower B(max) and K(d) and a higher cGMP production rate than in WKY rats, suggesting that these characteristics are intrinsic of NPR-A in SHR, instead of being a result of hypertension itself. The present study provides evidences for altered NPR-A receptor properties and function in the olfactory bulb and hypothalamus from SHR, which might be involved in the pathogenesis of hypertension.

169 PC Redondo; AI Lajas; GM Salido; A Gonzaleaz; JA Rosado; JA Pariente. Evidence for secretion-like coupling involving pp60(src) in the activation and maintenance of store-mediated Ca2+ entry in mouse pancreatic acinar cells. BIOCHEMICAL JOURNAL. 370 - Part 1, pp. 255 - 263. London, Inner London(United Kingdom): PORTLAND PRESS, 02/2003. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1223155/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 5
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.101
Journal in the top 25%: Yes
Position of publication: 56
No. of journals in the cat.: 261

Source of citations: WOS
Citations: 40

Relevant results: Store-mediated Ca2+ entry (SMCE) is one of the main pathways for Ca2+ influx in non-excitable cells. Recent studies favour a secretion-like coupling mechanism to explain SMCE, where Ca2+ entry is mediated by an interaction of the endoplasmic reticulum (ER) with the plasma membrane (PM) and is modulated by the actin cytoskeleton. To explore this possibility further we have now investigated the role of the actin cytoskeleton in the activation and maintenance of SMCE in pancreatic acinar cells, a more specialized secretory cell type which might be an ideal cellular model to investigate further the properties of the secretion-like coupling model. In these cells, the cytoskeletal disrupters cytochalasin D and latrunculin A inhibited both the activation and maintenance of SMCE. In addition, stabilization of a cortical actin barrier by jasplakinolide prevented the activation, but not the maintenance, of SMCE, suggesting that, as for secretion, the actin cytoskeleton plays a double role in SMCE as a negative modulator of the interaction between the ER and PM, but is also required for this mechanism, since the cytoskeleton disrupters impaired Ca2+ entry. Finally, depletion of the intracellular Ca2+ stores induces cytoskeletal association and activation of pp60(src), which is independent on Ca2+ entry. pp60(src) activation requires the integrity of the actin cytoskeleton and participates in the initial phase of the activation of SMCE in pancreatic acinar cells.

170 SO Sage; SL Brownlow; JA Rosado. TRP channels and calcium entry in human platelets. BLOOD. 100 - 12, pp. 4245 - 4246. WASHINGTON(United States of America): AMER SOC HEMATOLOGY, 12/2002. Available on-line at: <http://bloodjournal.hematologylibrary.org/content/100/12/4245.long>. ISSN 0006-4971

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of review

Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 9.631
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 61

Source of citations: WOS **Citations:** 13

171 JA Rosado; A Gonzalez; GM Salido; JA Pariente. Effects of reactive oxygen species on actin filament polymerisation and amylase secretion in mouse pancreatic acinar cells. CELLULAR SIGNALLING. 14 - 6, pp. 547 - 556. NEW YORK(United States of America): ELSEVIER SCIENCE INC, 06/2002. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S089865680100273X>. ISSN 0898-6568

Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - CELL BIOLOGY
Impact index in year of publication: 4.362 **Journal in the top 25%:** Yes
Position of publication: 35 **No. of journals in the cat.:** 153

Source of citations: WOS **Citations:** 31

Relevant results: The present study investigates the effect of reactive oxygen species (ROS) on actin filament reorganisation and its relevance to exocytosis in pancreatic acinar cells. Treatment of pancreatic acini with cholecystokinin (CCK-8) induced spatial and temporal changes in actin filament reorganisation with an initial depolymerisation of the apical actin barrier followed by an increase in the actin filament content in the subapical area leading to amylase release. Hydrogen peroxide (H(2)O(2)) increased actin filament content and potentiated the polymerizing effects of CCK-8 in these cells but abolished the disruption of the apical actin layer and amylase release induced by CCK-8. Similar to CCK-8, ROS generated by the oxidation of hypoxanthine (HX) with xanthine oxidase (XOD) induced an initial decrease in actin filaments located under the apical membrane followed by a smaller increase in the content of actin filaments in the subapical area. XOD-generated ROS are able to increase amylase release in pancreatic acini although combination with CCK-8 leads to abnormal exocytosis. We provide evidence that indicates that CCK-8- and ROS-induced actin reorganisation is entirely dependent on Ca(2+) mobilisation and independent of PKC activation. The regulation of the actin cytoskeleton by ROS might be involved in radical-induced cell injury in pancreatic acinar cells.

172 GE Woodard; JA Rosado; J Brown. Expression and control of C-type natriuretic peptide in rat vascular smooth muscle cells. AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY. 282 - 1, pp. R156 - R165. BETHESDA(United States of America): AMER PHYSIOLOGICAL SOC, 01/2002. Available on-line at: <http://ajpregu.physiology.org/content/282/1/R156.long>. ISSN 0363-6119

Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - PHYSIOLOGY
Impact index in year of publication: 3.156 **Journal in the top 25%:** No
Position of publication: 19 **No. of journals in the cat.:** 73

Source of citations: WOS **Citations:** 20

Relevant results: C-type natriuretic peptide (CNP) is a member of the natriuretic peptide family mainly distributed in the central nervous system. CNP is also produced and secreted by the endothelium and inhibits vascular smooth muscle cell proliferation. We have reported that endothelial damage stimulates only transiently vascular smooth muscle cell proliferation in arteries due to the development of an autocrine neointimal system for CNP that modulates neointimal growth. The present study demonstrates the production and secretion of CNP in rat vascular smooth muscle cells in the absence of endothelium. In addition, these cells express atrial natriuretic peptide (ANP) and the natriuretic peptide receptors A, B, and C. The production and secretion of CNP in vascular smooth muscle cells is stimulated by transforming growth factor-beta, whereas basic fibroblast growth factor plays an inhibitory role. These data show that ANP and mainly CNP are coexpressed with the natriuretic peptide receptors in rat vascular smooth muscle cells. This provides evidence for a vascular natriuretic peptide autocrine system of physiological relevance in these cells.

173 GE Woodard; J Zhao; JA Rosado; J Brown. A-type natriuretic peptide receptor in the spontaneously hypertensive rat kidney. PEPTIDES. 23 - 9, pp. 1637 - 1647. New York(United States of America): ELSEVIER SCIENCE INC, 2002. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0196978102001067>. ISSN 0196-9781

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 2.635
Journal in the top 25%: Yes
Position of publication: 43
No. of journals in the cat.: 188
Source of citations: WOS
Citations: 13

Relevant results: Renal NPR-A binding characteristics was examined in SHR. Renal ANP binding sites of NPR-A showed a lower maximal binding capacity and higher affinity in SHR than in WKY at all intrarenal sites. Despite the lower B(max) in SHR, both ANP(1-28) and ANP(5-25) stimulate similar or greater cGMP production in isolated glomeruli. Studies on guanylate cyclase from glomerular and papillary membranes have reported an increased basal and stimulated guanylate cyclase activity in SHR. The present study provides further evidences for altered NPR-A receptors in SHR kidney, which might act as a negative feedback in response to hypertension

174 GE Woodard; JA Rosado; J Brown. Dendroaspis natriuretic peptide-like immunoreactivity and its regulation in rat aortic vascular smooth muscle. PEPTIDES. 23 - 1, pp. 23 - 29. NEW YORK(United States of America): ELSEVIER SCIENCE INC, 2002. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0196978101005757>. ISSN 0196-9781

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHARMACOLOGY & PHARMACY
Impact index in year of publication: 2.635
Journal in the top 25%: Yes
Position of publication: 43
No. of journals in the cat.: 188
Source of citations: WOS
Citations: 15

Relevant results: Dendroaspis natriuretic peptide (DNP) is a recently isolated 38 amino acid peptide that shares structural and functional properties with the other members of the natriuretic peptide family. The present study demonstrates the presence of DNP-like immunoreactivity in sections of rat aorta, carotid artery and renal vasculature and tubules. DNP-like immunoreactivity was detected in culture aortic vascular smooth muscle cells and medium and is regulated by endothelin-1, angiotensin II and sodium nitroprusside but not by transforming growth factor-beta. Our observations indicate that DNP elicits a marked inhibitory effect on DNA synthesis in culture rat aortic vascular smooth muscle cells.

175 JA Rosado; SL Brownlow; SO Sage. Endogenously expressed Trp1 is involved in store-mediated Ca2+ entry by conformational coupling in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 277 - 44, pp. 42157 - 42163. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 2002. Available on-line at: <http://www.jbc.org/content/277/44/42157.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 6.696
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 266
Source of citations: WOS
Citations: 99

Relevant results: Physical interaction between transient receptor potential (Trp) channels and inositol 1,4,5-trisphosphate receptors (IP(3)Rs) has been presented as a candidate mechanism for the activation of store-mediated Ca(2+) entry. The role of a human homologue of Drosophila transient receptor potential channel, hTrp1, in the conduction of store-mediated Ca(2+) entry was examined in human platelets. Incubation of platelets with a specific antibody, which recognizes the extracellular amino acid sequence 557-571 of hTrp1, inhibited both store depletion-induced Ca(2+) and Mn(2+) entry in a concentration-dependent manner. Stimulation of platelets with the physiological agonist thrombin activated coupling between the IP(3) receptor type II and endogenously expressed hTrp1. This event was reversed by refilling of the internal Ca(2+) stores but maintained after removal of the agonist if the stores were not allowed to refill. Inhibition of IP(3) recycling using Li(+) or inhibition of IP(3)Rs with xestospongin C or treatment with jasplakinolide, to stabilize the cortical actin filament network, abolished thrombin-induced coupling between hTrp1 and IP(3)R type II. Incubation with the anti-hTrp1 antibody inhibited thrombin-evoked Ca(2+) entry without affecting Ca(2+) release from intracellular stores. These results provide evidence for the involvement of hTrp1 in the activation of store-mediated Ca(2+) entry by coupling to IP(3)R type II in normal human cells.

176 JA Rosado; SO Sage. The ERK cascade, a new pathway involved in the activation of store-mediated calcium entry in human platelets. TRENDS IN CARDIOVASCULAR MEDICINE. 12 - 5, pp. 229 - 234. LONDON(United Kingdom): ELSEVIER SCIENCE LONDON, 2002. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1050173802001615>. ISSN 1050-1738

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Impact index in year of publication: 3.397
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 66
Source of citations: WOS
Citations: 28

Relevant results: Store-mediated Ca(2+) entry (SMCE) is the main pathway for Ca(2+) influx in platelets and other nonexcitable cells, yet how depletion of the intracellular Ca(2+) stores leads to the activation of Ca(2+) entry across the plasma membrane remains unclear. Recent work in platelets favors a secretionlike conformational coupling mechanism involving the Ca(2+)-permeable channel protein, Trp1, in the plasma membrane and the type-II inositol 1,4,5-trisphosphate receptor in the membrane of the Ca(2+) store, which is located in the endoplasmic reticulum. Extracellular signal-regulated kinases (ERKs) are common participants in a broad variety of signal transduction pathways in human platelets, and inactivation of the ERK cascade has been shown to reduce Ca(2+) entry stimulated by thapsigargin or thrombin. The role of ERK in SMCE into human platelets was found to be independent of the cytoskeleton and a downstream effector of the small guanosine-triphosphate-binding protein Ras.

177 JM Diver; SO Sage; JA Rosado. The inositol trisphosphate receptor antagonist 2-aminoethoxydiphenylborate (2-APB) blocks Ca2+ entry channels in human platelets: cautions for its use in studying Ca2+ influx. CELL CALCIUM. 30 - 5, pp. 323 - 329. EDINBURGH, South Western Scotland(United Kingdom): CHURCHILL LIVINGSTONE, 11/2001. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0143416001902398>. ISSN 0143-4160

Type of production: Scientific paper
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CELL BIOLOGY
Impact index in year of publication: 3.071
Journal in the top 25%: No
Position of publication: 49
No. of journals in the cat.: 147
Source of citations: WOS
Citations: 59

Relevant results: It has been reported that store-mediated Ca2+ entry (SMCE) in human platelets is likely to be mediated by a secretion-like coupling mechanism. Recently, 2-aminoethoxydiphenylborate (2-APB) has been used in the investigation of SMCE. Here, the mechanism of action of 2-APB is investigated in human platelets. In

a Ca2+-free medium (EGTA added), addition of 0.1 U/ml thrombin caused an elevation in [Ca2+]i. Preincubation with 100 microM 2-APB for 170s abolished the release of internal Ca2+. In platelets whose internal Ca2+ stores had been depleted by treatment with 200 nM thapsigargin, addition of extracellular Ca2+ caused an elevation in [Ca2+]i indicative of SMCE. Preincubation with 2-APB decreased SMCE by 95.5+/-1.1%. After activation of SMCE, addition of 2-APB rapidly decreased [Ca2+]i to basal levels; in contrast, the coupling between Trp1 and IP3RII, which has been shown to play an important role in SMCE in platelets, remained intact at the same time points. The rate of decrease of [Ca2+]i and the absence of measurable latency in the effect of 2-APB were comparable to the effects of La3+ (a cation channel blocker). These data suggest that 2-APB may act as a blocker of Ca2+ permeable plasma membrane channels. These data provide further information regarding the mechanism and site of action of 2-APB and highlight the necessity of careful interpretation of work performed using this molecule.

178 JA Rosado; I Rosenzweig; S Harding; SO Sage. Tumor necrosis factor-alpha inhibits store-mediated Ca2+ entry in the human hepatocellular carcinoma cell line HepG2. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. 280 - 6, pp. C1636 - C1644. BETHESDA(United States of America): AMER PHYSIOLOGICAL SOC, 06/2001. Available on-line at: <http://ajpcell.physiology.org/content/280/6/C1636.long>. ISSN 0363-6143

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 3.896
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 74
Source of citations: WOS
Citations: 9

Relevant results: Tumor necrosis factor-alpha (TNF-alpha) is an important component of the early signaling pathways leading to liver regeneration and proliferation, but it is also responsible for several hepatotoxic effects. We have investigated the effect of TNF-alpha on thapsigargin (TG)-induced store-mediated Ca2+ entry (SMCE) in the human hepatocellular carcinoma cell line HepG2. In these cells, short-term (10 min) exposure to TNF-alpha slightly increased SMCE. In contrast, long-term (12 h) exposure to TNF-alpha significantly reduced SMCE. This effect was reversed by coincubation with atrial natriuretic peptide (ANP), which itself had no effect on SMCE. Cytochalasin D and latrunculin A, inhibitors of actin polymerization, abolished SMCE. Long-term exposure of HepG2 cells to TNF-alpha abolished TG-induced actin polymerization and membrane association of Ras proteins. When TNF-alpha was added in combination with ANP, these effects were reduced. These findings suggest that in HepG2 cells, TNF-alpha inhibits SMCE by affecting reorganization of the actin cytoskeleton, probably by interfering with the activation of Ras proteins, and that ANP protects against these inhibitory effects of TNF-alpha.

179 JA Rosado; T Porras; M Conde; SO Sage. Cyclic nucleotides modulate store-mediated calcium entry through the activation of protein-tyrosine phosphatases and altered actin polymerization in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 276 - 19, pp. 15666 - 15675. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 05/2001. Available on-line at: <http://www.jbc.org/content/276/19/15666.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 7.258
Journal in the top 25%: Yes
Position of publication: 29
No. of journals in the cat.: 308
Source of citations: WOS
Citations: 40

Relevant results: Agonists elevate the cytosolic calcium concentration in human platelets via a receptor-operated mechanism, involving both Ca(2+) release from intracellular stores and subsequent Ca(2+) entry, which can be inhibited by platelet inhibitors, such as prostaglandin E(1) and nitroprusside which elevate cAMP and cGMP, respectively. In the present study we investigated the mechanisms by which cAMP and cGMP modulate store-mediated Ca(2+) entry. Both prostaglandin E(1) and sodium nitroprusside inhibited thapsigargin-evoked store-mediated Ca(2+) entry and actin polymerization. However, addition of these agents after induction of

store-mediated Ca(2+) entry did not affect either Ca(2+) entry or actin polymerization. Furthermore, prostaglandin E(1) and sodium nitroprusside dramatically inhibited the tyrosine phosphorylation induced by depletion of the internal Ca(2+) stores or agonist stimulation without affecting the activation of Ras or the Ras-activated phosphatidylinositol 3-kinase or extracellular signal-related kinase (ERK) pathways. Inhibition of cyclic nucleotide-dependent protein kinases prevented inhibition of agonist-evoked Ca(2+) release but it did not have any effect on the inhibition of Ca(2+) entry or actin polymerization. Phenylarsine oxide and vanadate, inhibitors of protein-tyrosine phosphatases prevented the inhibitory effects of the cGMP and cAMP elevating agents on Ca(2+) entry and actin polymerization. These results suggest that Ca(2+) entry in human platelets is directly down-regulated by cGMP and cAMP by a mechanism involving the inhibition of cytoskeletal reorganization via the activation of protein tyrosine phosphatases.

180 JA Rosado; SO Sage. Activation of store-mediated calcium entry by secretion-like coupling between the inositol 1,4,5-trisphosphate receptor type II and human transient receptor potential (hTrp1) channels in human platelets. BIOCHEMICAL JOURNAL. 356 - Part 1, pp. 191 - 198. London, Inner London(United Kingdom): PORTLAND PRESS, 2001. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1221827/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.326
Journal in the top 25%: Yes
Position of publication: 62
No. of journals in the cat.: 308
Source of citations: WOS
Citations: 63

Relevant results: Physical coupling between inositol 1,4,5-trisphosphate (IP(3)) receptors and transient receptor potential (Trp) channels has been demonstrated in both transfected and normal cells as a candidate mechanism for the activation of store-mediated Ca(2+) entry (SMCE). We have investigated the properties of the coupling between the type II IP(3) receptor and naturally expressed human Trp1 (hTrp1) in human platelets. Treatment with xestospongin C, an inhibitor of IP(3) receptor function, abolished SMCE and coupling between the IP(3) receptor and hTrp1. The coupling was activated by depletion of the intracellular Ca(2+) stores, and was reversed by refilling of the stores. We have also examined the role of actin filaments in the activation and maintenance of the coupling. Stabilization of the cortical actin network with jasplakinolide prevented the coupling, indicating that, as with secretion, the actin filaments at the cell periphery act as a negative clamp which prevents constitutive coupling. In addition, the actin cytoskeleton plays a positive role, since disruption of the actin network inhibited the coupling when the Ca(2+) stores were depleted. These results provide strong evidence for the activation of SMCE by a secretion-like coupling mechanism involving a reversible association between IP(3) receptors and hTrp1 in normal human cells.

181 JA Rosado; EMY Meijer; K Hamulyak; I Novakova; JWM Heemskerk; SO Sage. Fibrinogen binding to the integrin alpha(IIb)beta(3) modulates store-mediated calcium entry in human platelets. BLOOD. 97 - 9, pp. 2648 - 2656. WASHINGTON(United States of America): AMER SOC HEMATOLOGY, 2001. Available on-line at: <http://bloodjournal.hematologylibrary.org/content/97/9/2648.long>. ISSN 0006-4971

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - HEMATOLOGY
Impact index in year of publication: 9.273
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 59
Source of citations: WOS
Citations: 17

Relevant results: Effects of the occupation of integrin alpha(IIb)beta(3) by fibrinogen on Ca(++) signaling in fura-2-loaded human platelets were investigated. Adding fibrinogen to washed platelet suspensions inhibited increases in cytosolic [Ca(++)] concentrations ([Ca(++)](i)) evoked by adenosine diphosphate (ADP) and thrombin in a concentration-dependent manner in the presence of external Ca(++) but not in the absence of external Ca(++) or in the presence of the nonselective cation channel blocker SKF96365, indicating selective inhibition of

Ca(++) entry. Fibrinogen also inhibited store-mediated Ca(++) entry (SMCE) activated after Ca(++) store depletion using thapsigargin. The inhibitory effect of fibrinogen was reversed if fibrinogen binding to alpha(IIb)beta(3) was blocked using RDGS or abciximab and was absent in platelets from patients homozygous for Glanzmann thrombasthenia. Fibrinogen was without effect on SMCE once activated. Activation of SMCE in platelets occurs through conformational coupling between the intracellular stores and the plasma membrane and requires remodeling of the actin cytoskeleton. Fibrinogen inhibited actin polymerization evoked by ADP or thapsigargin in control cells and in cells loaded with the Ca(++) chelator dimethyl BAPTA. It also inhibited the translocation of the tyrosine kinase p60(src) to the cytoskeleton. These results indicate that the binding of fibrinogen to integrin alpha(IIb)beta(3) inhibits the activation of SMCE in platelets by a mechanism that may involve modulation of the reorganization of the actin cytoskeleton and the cytoskeletal association of p60(src). This action may be important in intrinsic negative feedback to prevent the further activation of platelets subjected.

182 JA Rosado; SO Sage. Role of the ERK pathway in the activation of store-mediated calcium entry in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 276 - 19, pp. 15659 - 15665. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 2001. Available on-line at: <http://www.jbc.org/content/276/19/15659.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 7.258
Journal in the top 25%: Yes
Position of publication: 29
No. of journals in the cat.: 308

Relevant results: Extracellular signal-regulated kinases (ERKs), are common participants in a broad variety of signal transduction pathways. Several studies have demonstrated the presence of ERKs in human platelets and their activation by the physiological agonist thrombin. Here we report the involvement of the ERK cascade in store-mediated Ca(2+) entry in human platelets. Treatment of dimethyl-bis-(o-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid-loaded platelets with thapsigargin to deplete the intracellular Ca(2+) stores resulted in a time- and concentration-dependent activation of ERK1 and ERK2. Incubation with either U0126 or PD 184352, specific inhibitors of mitogen-activated protein kinase kinase (MEK), prevented thapsigargin-induced ERK activation. Furthermore, U0126 and PD 184352 reduced Ca(2+) entry stimulated by thapsigargin or thrombin, in a concentration-dependent manner. The role of ERK in store-mediated Ca(2+) entry was found to be independent of phosphatidylinositol 3- and 4-kinases, the tyrosine kinase pathway, and actin polymerization but sensitive to treatment with inhibitors of Ras, suggesting that the ERK pathway might be a downstream effector of Ras in mediating store-mediated Ca(2+) entry in human platelets. In addition, we have found that store depletion stimulated ERK activation does not require PKC activity. This study demonstrates for the first time a novel mechanism for regulation of store-mediated Ca(2+) entry in human platelets involving the ERK cascade.

183 JA Rosado; SO Sage. A role for the actin cytoskeleton in the initiation and maintenance of store-mediated calcium entry in human platelets. TRENDS IN CARDIOVASCULAR MEDICINE. 10 - 8, pp. 327 - 332. LONDON(United Kingdom): ELSEVIER SCIENCE LONDON, 11/2000. Available on-line at: <http://www.jbc.org/content/275/11/7527.long>. ISSN 1050-1738

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Impact index in year of publication: 2.879
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 63
Source of citations: WOS
Citations: 39

Relevant results: The nature of the mechanism underlying store-mediated Ca(2+) entry has been investigated in human platelets through a combination of cytoskeletal modifications. Inhibition of actin polymerization by cytochalasin D or latrunculin A had a biphasic time-dependent effect on Ca(2+) entry, showing an initial

potentiation followed by inhibition of Ca(2+) entry. Moreover, addition of these agents after induction of store-mediated Ca(2+) entry inhibited the Ca(2+) influx mechanism. Jasplakinolide, which reorganizes actin filaments into a tight cortical layer adjacent to the plasma membrane, prevented activation of store-mediated Ca(2+) entry but did not modify this process after its activation. In addition, jasplakinolide prevented cytochalasin D-induced inhibition of store-mediated Ca(2+) entry. Calyculin A, an inhibitor of protein serine/threonine phosphatases 1 and 2 which activates translocation of existing F-actin to the cell periphery without inducing actin polymerization, also prevented activation of store-mediated Ca(2+) entry. Finally, inhibition of vesicular transport with brefeldin A inhibited activation of store-mediated Ca(2+) entry but did not alter this mechanism once initiated. These data suggest that store-mediated Ca(2+) entry in platelets may be mediated by a reversible trafficking and coupling of the endoplasmic reticulum with the plasma membrane, which shows close parallels to the events mediating secretion.

184 JA Rosado; SO Sage. Protein kinase C activates non-capacitative calcium entry in human platelets. JOURNAL OF PHYSIOLOGY-LONDON. 529 - 1, pp. 159 - 169. CAMBRIDGE(United Kingdom): CAMBRIDGE UNIV PRESS, 11/2000. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2270184/>. ISSN 0022-3751

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.455
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 76
Source of citations: WOS
Citations: 61

Relevant results: Depletion of the internal Ca2+ stores with thapsigargin plus a low concentration of ionomycin stimulated store-mediated cation entry, as demonstrated upon Ca2+ or Sr2+ addition. Subsequent treatment with thrombin stimulated further divalent cation entry in a concentration-dependent manner. 4. Direct activation of protein kinase C (PKC) by phorbol-12-myristate-13-acetate or 1-oleoyl-2-acetyl-sn-glycerol also stimulated divalent cation entry, without evoking the release of Ca2+ from intracellular stores. Cation entry evoked by thrombin or activators of PKC was abolished by the PKC inhibitor Ro-31-8220. 5. Unlike store-mediated Ca2+ entry, jasplakinolide, which reorganises actin filaments into a tight cortical layer adjacent to the plasma membrane, did not inhibit divalent cation influx evoked by thrombin when applied after Ca2+ store depletion, or by activators of PKC. Thrombin also activated Ca2+ entry in platelets in which the release from intracellular stores and store-mediated Ca2+ entry were blocked by xestospongin C

185 JA Rosado; D Graves; SO Sage. Tyrosine kinases activate store-mediated Ca2+ entry in human platelets through the reorganization of the actin cytoskeleton. BIOCHEMICAL JOURNAL. 351 - Part 2, pp. 429 - 437. London, Inner London(United Kingdom): PORTLAND PRESS, 10/2000. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1221379/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.280
Journal in the top 25%: Yes
Position of publication: 59
No. of journals in the cat.: 310
Source of citations: WOS
Citations: 61

Relevant results: We have recently reported that store-mediated Ca(2+) entry in platelets is likely to be mediated by a reversible trafficking and coupling of the endoplasmic reticulum with the plasma membrane, a model termed 'secretion-like coupling'. In this model the actin cytoskeleton plays a key regulatory role. Since tyrosine kinases have been shown to be important for Ca(2+) entry in platelets and other cells, we have now investigated the possible involvement of tyrosine kinases in the secretion-like-coupling model. Treatment of platelets with thrombin or thapsigargin induced actin polymerization by a calcium-independent pathway. Methyl 2,5-dihydroxycinnamate, a tyrosine kinase inhibitor, prevented thrombin- or thapsigargin-induced actin polymerization. The effects of tyrosine kinases in store-mediated Ca(2+) entry were found to be entirely dependent on the actin cytoskeleton. PP1, an

inhibitor of the Src family of proteins, partially inhibited store-mediated Ca(2+) entry. In addition, depletion of intracellular Ca(2+) stores stimulated cytoskeletal association of the cytoplasmic tyrosine kinase pp60(src), a process that was sensitive to treatment with cytochalasin D and PP1, but not to inhibition of Ras proteins using prenylcysteine analogues. Finally, combined inhibition of both Ras proteins and tyrosine kinases resulted in complete inhibition of Ca(2+) entry, suggesting that these two families of proteins have independent effects in the activation of store-mediated Ca(2+) entry in human platelets.

186 JA Rosado; SO Sage. Coupling between inositol 1,4,5-trisphosphate receptors and human transient receptor potential channel 1 when intracellular Ca2+ stores are depleted. BIOCHEMICAL JOURNAL. 350 - Part 3, pp. 631 - 635. London, Inner London(United Kingdom): PORTLAND PRESS, 09/2000. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1221291/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.280
Journal in the top 25%: Yes
Position of publication: 59
No. of journals in the cat.: 310
Source of citations: WOS
Citations: 131

Relevant results: In the present study we have investigated the role of inositol 1,4, 5-trisphosphate (IP(3)), functional IP(3) receptors (IP(3)Rs) and the human homologue of the Drosophila transient receptor potential (Trp) channel, human Trp1 (hTrp1), in store-mediated Ca(2+) entry (SMCE) in human platelets. Inhibition of IP(3) recycling using Li(+), or the inhibition of IP(3)Rs using xestospongin C, both resulted in the inhibition of SMCE activation following Ca(2+) store depletion using thapsigargin. Co-immunoprecipitation experiments indicated that endogenously expressed hTrp1 couples with IP(3)R type II, but not types I or III, in platelets with depleted intracellular Ca(2+) stores, but not in control, undepleted cells. These results provide strong evidence for the activation of SMCE by conformational coupling involving de novo association between IP(3)Rs and a plasma membrane channel in normal human cells.

187 JA Rosado; SO Sage. The actin cytoskeleton in store-mediated calcium entry. JOURNAL OF PHYSIOLOGY-LONDON. 526 - 2, pp. 221 - 229. CAMBRIDGE(United Kingdom): CAMBRIDGE UNIV PRESS, 07/2000. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2270006/>. ISSN 0022-3751

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of review
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 4.455
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 76
Source of citations: WOS
Citations: 99

Relevant results: Store-mediated Ca2+ entry is the main pathway for Ca2+ influx in platelets and many other cells. Several hypotheses have considered both direct and indirect coupling mechanisms between the endoplasmic reticulum and the plasma membrane. Here we pay particular attention to new insights into the regulation of store-mediated Ca2+ entry: the role of the cytoskeleton in a secretion-like coupling model. In this model, Ca2+ entry may be mediated by a reversible trafficking and coupling of the endoplasmic reticulum with the plasma membrane, that shows close parallels to the events mediating secretion. As with secretion, the actin cytoskeleton plays an inhibitory role in the activation of Ca2+ entry by preventing the approach and coupling of the endoplasmic reticulum with the plasma membrane, making cytoskeletal remodelling a key event in the activation of Ca2+ entry. We also review recent advances investigating the regulation of store-mediated Ca2+ entry by small GTPases and phosphoinositides, which might be involved in the store-mediated Ca2+ entry pathway through roles in the remodelling of the cytoskeleton.

188 JA Rosado; SO Sage. Regulation of plasma membrane Ca2+-ATPase by small GTPases and phosphoinositides in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 275 - 26, pp. 19529 - 19535. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 06/2000. Available on-line at: <http://www.jbc.org/content/275/26/19529.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 7.368
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 310
Source of citations: WOS
Citations: 54

Relevant results: We have investigated the restoration of [Ca(2+)](i) in human platelets following the discharge of the intracellular Ca(2+) stores. We found that the plasma membrane Ca(2+)-ATPase is the main mechanism involved in Ca(2+) extrusion in human platelets. Treatment of platelets with the farnesylcysteine analogs, farnesylthioacetic acid and N-acetyl-S-geranylgeranyl-l-cysteine, inhibitors of activation of Ras proteins, accelerated the rate of decay of [Ca(2+)](i) to basal levels after activation with thapsigargin combined with a low concentration of ionomycin, indicating that Ras proteins are involved in the negative regulation of Ca(2+) extrusion. Rho A, which is involved in actin polymerization, was not responsible for this effect. Consistent with this, the actin polymerization inhibitors, cytochalasin D and latrunculin A, did not alter the recovery of [Ca(2+)](i). Activation of human platelets with thapsigargin and ionomycin stimulated the tyrosine phosphorylation of the plasma membrane Ca(2+)-ATPase, a mechanism that was inhibited by farnesylcysteine analogs, suggesting that Ras proteins could regulate Ca(2+) extrusion by mediating tyrosine phosphorylation of the plasma membrane Ca(2+)-ATPase. Treatment of platelets with LY294002, a specific inhibitor of phosphatidylinositol 3- and phosphatidylinositol 4-kinase, resulted in a reduction in the rate of recovery of [Ca(2+)](i) to basal levels, suggesting that the products of these kinases are involved in stimulating Ca(2+) extrusion in human platelets.

189 JA Rosado; SO Sage. Farnesylcysteine analogues inhibit store-regulated Ca2+ entry in human platelets: evidence for involvement of small GTP-binding proteins and actin cytoskeleton. BIOCHEMICAL JOURNAL. 347 - Part 1, pp. 183 - 192. London, Inner London(United Kingdom): PORTLAND PRESS, 04/2000. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1220946/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.280
Journal in the top 25%: Yes
Position of publication: 59
No. of journals in the cat.: 310
Source of citations: WOS
Citations: 85

Relevant results: We have investigated the mechanism of Ca(2+) entry into fura-2-loaded human platelets by preventing the prenylation of proteins such as small GTP-binding proteins. The farnesylcysteine analogues farnesylthioacetic acid (FTA) and N-acetyl-S-geranylgeranyl-L-cysteine (AGGC), which are inhibitors of the methylation of prenylated and geranylgeranylated proteins respectively, significantly decreased thrombin-evoked increases in intracellular free Ca(2+) concentration ([Ca(2+)](i)) in the presence, but not in the absence, of external Ca(2+), suggesting a relatively selective inhibition of Ca(2+) entry over internal release. Both these compounds and N-acetyl-S-farnesyl-L-cysteine, which had similar effects to those of FTA, also decreased Ca(2+) entry evoked by the depletion of intracellular Ca(2+) stores with thapsigargin. The inactive control N-acetyl-S-geranyl-L-cysteine was without effect. Patulin, an inhibitor of prenylation that is inert with respect to methyltransferases, also decreased store-regulated Ca(2+) entry. Cytochalasin D, an inhibitor of actin polymerization, significantly decreased store-regulated Ca(2+) entry in a time-dependent manner. Both cytochalasin D and the farnesylcysteine analogues FTA and AGGC inhibited actin polymerization; however, when evoking the same extent of decrease in actin filament formation, FTA and AGGC showed greater inhibitory effects on Ca(2+) entry, indicating a cytoskeleton-independent component in the regulation of Ca(2+) entry by small GTP-binding-protein. These

findings suggest that prenylated proteins such as small GTP-binding proteins are involved in store-regulated Ca(2+) entry through actin cytoskeleton-dependent and cytoskeleton-independent mechanisms in human platelets.

190 JA Rosado; GM Salido; LJ Garcia. A role for phosphoinositides in tyrosine phosphorylation of p125 focal adhesion kinase in rat pancreatic acini. CELLULAR SIGNALLING. 12 - 3, pp. 173 - 182. NEW YORK(United States of America): ELSEVIER SCIENCE INC, 03/2000. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0898656899000832>. ISSN 0898-6568

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 3.294
Journal in the top 25%: No
Position of publication: 79
No. of journals in the cat.: 310
Source of citations: WOS
Citations: 8

191 JA Rosado; S Jenner; SO Sage. A role for the actin cytoskeleton in the initiation and maintenance of store-mediated calcium entry in human platelets - Evidence for conformational coupling. JOURNAL OF BIOLOGICAL CHEMISTRY. 275 - 11, pp. 7527 - 7533. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 03/2000. Available on-line at: <http://www.jbc.org/content/275/11/7527.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 7.368
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 310
Source of citations: WOS
Citations: 143

Relevant results: The nature of the mechanism underlying store-mediated Ca(2+) entry has been investigated in human platelets through a combination of cytoskeletal modifications. Inhibition of actin polymerization by cytochalasin D or latrunculin A had a biphasic time-dependent effect on Ca(2+) entry, showing an initial potentiation followed by inhibition of Ca(2+) entry. Moreover, addition of these agents after induction of store-mediated Ca(2+) entry inhibited the Ca(2+) influx mechanism. Jasplakinolide, which reorganizes actin filaments into a tight cortical layer adjacent to the plasma membrane, prevented activation of store-mediated Ca(2+) entry but did not modify this process after its activation. In addition, jasplakinolide prevented cytochalasin D-induced inhibition of store-mediated Ca(2+) entry. Calyculin A, an inhibitor of protein serine/threonine phosphatases 1 and 2 which activates translocation of existing F-actin to the cell periphery without inducing actin polymerization, also prevented activation of store-mediated Ca(2+) entry. Finally, inhibition of vesicular transport with brefeldin A inhibited activation of store-mediated Ca(2+) entry but did not alter this mechanism once initiated. These data suggest that store-mediated Ca(2+) entry in platelets may be mediated by a reversible trafficking and coupling of the endoplasmic reticulum with the plasma membrane, which shows close parallels to the events mediating secretion.

192 JA Rosado; SO Sage. Phosphoinositides are required for store-mediated calcium entry in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 275 - 13, pp. 9110 - 9113. BETHESDA(United States of America): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 03/2000. Available on-line at: <http://www.jbc.org/content/275/13/9110.long>. ISSN 0021-9258

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: BIOCHEMISTRY & MOLECULAR BIOLOGY

Impact index in year of publication: 7.368
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 310

Source of citations: WOS
Citations: 49

Relevant results: We have recently observed that small GTP-binding proteins are important for mediation of store-mediated Ca(2+) entry in human platelets through the reorganization of the actin cytoskeleton. Because it has been shown in platelets and other cells that small GTP-binding proteins regulate the activity of phosphatidylinositol 3-kinase and phosphatidylinositol 4-kinase, whose products, phosphoinositides, play a key role in the reorganization of the actin cytoskeleton, we have investigated the role of these lipid kinases in store-mediated Ca(2+) entry. Treatment of platelets with LY294002, an inhibitor of phosphatidylinositol 3- and phosphatidylinositol 4-kinases, resulted in a concentration-dependent inhibition of Ca(2+) entry stimulated by thapsigargin or the physiological agonist, thrombin. In addition, wortmannin, another inhibitor of these kinases, which is structurally unrelated to LY294002, significantly reduced store-mediated Ca(2+) entry. The inhibitory effect of LY294002 was not mediated either by blockage of Ca(2+) channels or by modification of membrane potential. LY294002 inhibited actin polymerization stimulated by thrombin or thapsigargin. These results indicate that both phosphatidylinositol 3-kinase and phosphatidylinositol 4-kinase are required for activation of store-mediated Ca(2+) entry in human platelets and that the mechanism could involve the reorganization of the actin cytoskeleton.

193 JA Rosado; GM Salido; LJ Garcia. Activation of m3 muscarinic receptors induces rapid tyrosine phosphorylation of p125(FAK), p130(cas) and paxillin in rat pancreatic acini. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 377 - 1, pp. 85 - 94. New York(United States of America): ACADEMIC PRESS INC, 2000. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0003986100917612>. ISSN 0003-9861

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI
Category: Science Edition - BIOPHYSICS
Impact index in year of publication: 2.576
Journal in the top 25%: No
Position of publication: 25
No. of journals in the cat.: 66

Source of citations: WOS
Citations: 17

Relevant results: Tyrosine phosphorylation plays a key role in transmembrane and cytoplasmic signal transduction mechanisms stimulated by oncogenes, integrins, growth factors, neuropeptides, and bioactive lipids. Moreover, recent studies show that stimulation of odd-numbered muscarinic receptors increases the tyrosine phosphorylation of several proteins in different cellular types. The present study was aimed at examining whether activation of m3 muscarinic receptors in rat pancreatic acini evokes tyrosine phosphorylation of p125(FAK), and its substrates, p130(cas) and paxillin. Results show that stimulation of pancreatic acini with carbachol resulted in a rapid and transient increase in tyrosine phosphorylation of p125(FAK), p130(cas), and paxillin. Tyrosine phosphorylation of these proteins occurred in a time- and concentration-dependent manner. Simultaneous blockage of both PKC activation and increases in [Ca(2+)](i) partially decreased p125(FAK), p130(cas), and paxillin tyrosine phosphorylation stimulated by carbachol. Pretreatment of pancreatic acini with Clostridium botulinum C3 transferase, which specifically inactivates p21(rho), partially inhibited carbachol-induced p125(FAK), p130(cas), and paxillin tyrosine phosphorylation. In contrast, this treatment had no effect on amylase release stimulated by carbachol. Cytochalasin D, which disrupts actin microfilaments network, completely inhibited carbachol stimulated tyrosine phosphorylation of these proteins without having significant effects in carbachol-stimulated amylase secretion. These results dissociate tyrosine phosphorylation of p125(FAK), p130(cas), and paxillin from amylase secretion after m3 muscarinic receptors occupation in rat pancreatic acini. Taken together, these data suggest that (a) activation of m3 muscarinic receptors in rat pancreatic acini increases tyrosine phosphorylation of p125(FAK) and its substrates, p130(cas) and paxillin by diacylglycerol-activated PKC- and calcium- dependent, and independent pathways, (b) these responses require activation of p21(rho) and an intact actin cytoskeleton, and (c) p125(FAK), p130(cas), and paxillin are unlikely related to secretion in rat pancreatic acinar cells.

194 JA Rosado; GM Salido; RT Jensen; LJ Garcia. Are tyrosine phosphorylation of p125(FAK) and paxillin or the small GTP binding protein, Rho, needed for CCK-stimulated pancreatic amylase secretion?. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1404 - 3, pp. 412 - 426. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 09/1998. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S016748899800072X>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 2.478
Journal in the top 25%: No
Position of publication: 97
Source of citations: WOS
Citations: 8

Relevant results: Studies of a possible role of tyrosine phosphorylation in the secretory process in rat pancreatic acinar cells provide conflicting conclusions. Recent studies show that tyrosine phosphorylation of the focal adhesion kinase, p125FAK and the cytoskeletal protein, paxillin, may mediate a number of cellular changes and this phosphorylation is dependent on the activation of the small GTP binding protein, p21Rho (Rho). In this work we have investigated the role of tyrosine phosphorylation of each of these proteins and of the activation of Rho in pancreatic enzyme secretion. Pretreatment with genistein, a tyrosine kinase inhibitor, decreased CCK-8-stimulated tyrosine phosphorylation of p125FAK and paxillin and CCK-8-stimulated amylase secretion by more than 60%, raising the possibility that tyrosine phosphorylation of these two proteins could be important in the ability of CCK-8 to stimulate amylase release. However, genistein did not alter the amylase release stimulated by TPA but inhibited TPA-stimulated p125FAK and paxillin tyrosine phosphorylation by 70%. Pretreatment with C3 transferase, which specifically inactivates Rho, causes a decrease in CCK-8-induced maximal amylase release by 33%. Moreover, C3 transferase pretreatment causes a 48% and a 38% decrease in the tyrosine phosphorylation of p125FAK and paxillin by CCK-8, respectively. Pretreatment with different concentrations of cytochalasin D, an actin cytoskeleton assembly inhibitor, completely inhibited CCK-8-stimulated tyrosine phosphorylation of p125FAK and paxillin without having any effect on either the potency or efficacy of CCK-8 at stimulating amylase release. Furthermore, cytochalasin D completely inhibited TPA-stimulated tyrosine phosphorylation of both proteins without affecting TPA-stimulated amylase release. These results show that tyrosine phosphorylation of p125FAK and paxillin is not required for CCK-8 stimulation of enzyme secretion. However, our results suggest Rho is involved in the CCK-8 stimulation of amylase release by a parallel pathway to its involvement in the CCK-8-stimulated tyrosine phosphorylation of p125FAK and paxillin.

195 LJ Garcia; JA Rosado; A Gonzalez; RT Jensen. Cholecystokinin-stimulated tyrosine phosphorylation of p125(FAK) and paxillin is mediated by phospholipase C-dependent and -independent mechanisms and requires the integrity of the actin cytoskeleton and participation of p21(rho). BIOCHEMICAL JOURNAL. 327 - Part 2, pp. 461 - 472. London, Inner London(United Kingdom): PORTLAND PRESS, 10/1997. Available on-line at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1218817/>. ISSN 0264-6021

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 3.579
Journal in the top 25%: Yes
Position of publication: 51
Source of citations: WOS
Citations: 59

Relevant results: Recent studies show that the effects of some oncogenes, integrins, growth factors and neuropeptides are mediated by tyrosine phosphorylation of the cytosolic kinase p125 focal adhesion kinase (p125(FAK)) and the cytoskeletal protein paxillin. Recently we demonstrated that cholecystokinin (CCK) C-terminal octapeptide (CCK-8) causes tyrosine phosphorylation of p125(FAK) and paxillin in rat pancreatic acini. The present study was aimed at examining whether protein kinase C (PKC) activation, calcium mobilization, cytoskeletal organization and small G-protein p21(rho) activation play a role in mediating the stimulation of tyrosine phosphorylation by CCK-8 in acini. CCK-8-stimulated phosphorylation of p125(FAK) and paxillin reached a maximum within 2.5 min. The CCK-8 dose response for causing changes in the cytosolic calcium concentration ([Ca2+]i) was similar to that for p125(FAK) and paxillin phosphorylation, and both were to the left of that for receptor occupation and inositol phosphate production. PMA increased tyrosine phosphorylation of both proteins. The calcium ionophore A23187 caused only 25% of the maximal stimulation caused by CCK-8. GF109203X,

a PKC inhibitor, completely inhibited phosphorylation with PMA but had no effect on the response to CCK-8. Depletion of [Ca2+]i by thapsigargin had no effect on CCK-8-stimulated phosphorylation. Pretreatment with both GF109203X and thapsigargin decreased CCK-8-stimulated phosphorylation of both proteins by 50%. Cytochalasin D, but not colchicine, completely inhibited CCK-8- and PMA-induced p125(FAK) and paxillin phosphorylation. Treatment with Clostridium botulinum C3 transferase, which inactivates p21(rho), caused significant inhibition of CCK-8-stimulated p125(FAK) and paxillin phosphorylation. These results demonstrate that, in pancreatic acini, CCK-8 causes rapid p125(FAK) and paxillin phosphorylation that is mediated by both phospholipase C-dependent and -independent mechanisms. For this tyrosine phosphorylation to occur, the integrity of the actin, but not the microtubule, cytoskeleton is essential as well as the activation of p21(rho).

196 LJ Garcia; JA Rosado; T Tsuda; RT Jensen. CCK causes rapid tyrosine phosphorylation of p125(FAK) focal adhesion kinase and paxillin in rat pancreatic acini. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1358 - 2, pp. 189 - 199. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 09/1997. Available on-line at: <http://www.ncbi.nlm.nih.gov/pubmed/9332455>. ISSN 0167-4889

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 2.411
Journal in the top 25%: No
Position of publication: 91
Source of citations: WOS
Citations: 24

Relevant results: Recent studies show CCK stimulates tyrosine phosphorylation (TYR PHOSP) of a number of proteins and evidence from the pancreas and other cellular systems suggest this could be important in mediating some of CCK's growth and secretory effects. In other tissues various neuropeptides such as bombesin can cause tyrosine phosphorylation of p125 focal adhesion kinase (p125FAK) and paxillin which are important in mediating their growth effects. The purpose of the present study was to determine the effects of CCK in rat pancreatic acini on the TYR PHOSP of these latter proteins. In dispersed rat pancreatic acini, cell lysates were incubated with an anti-phosphotyrosine mAb (PY20) which was immunoprecipitated and then analyzed by Western blotting with anti-phosphotyrosine mAb (4G10), anti-p125FAK mAb or anti-paxillin mAb. CCK-8 at 5 min increased TYR PHOSP of five proteins of molecular weight > 60,000 including a broad M(r) 110-130,000 and M(r) 70-80,000. An increase in TYR PHOSP of both p125FAK and paxillin was detected within 1 min of adding CCK and reached a maximum at 2.5 min with a 9.1 +/- 1.9-fold increase for p125FAK and 3.6 +/- 0.6-fold for paxillin. CCK-8 caused a half-maximal increase in TYR PHOSP of p125FAK at 0.1 nM and paxillin at 0.03 nM. CCK-JMV also stimulated an increase in TYR PHOSP of both proteins, but was only 50% as efficacious as CCK-8. CCK-JMV caused a half-maximal increase at 10 nM and maximal at 1 microM for both proteins. To investigate whether the low affinity CCK receptor state also caused TYR PHOSP of both proteins, increasing concentrations of CCK-JMV were added to a maximally effective CCK-8 concentration (1 nM). Detectable inhibition of CCK-8-stimulated TYR PHOSP occurred with 1 microM CCK-JMV and with 3 microM CCK-JMV the CCK-8-stimulated response was inhibited 50% and was the same as that seen with CCK-JMV alone. These studies demonstrate that in rat pancreatic acini, CCK causes rapid TYR PHOSP of both p125FAK and paxillin. This stimulation is mediated by both the high affinity and low affinity CCK receptor states. This phosphorylation of these proteins could be important in mediating CCK's effect on the cytoskeleton or growth effects as shown for a number of other agents (oncogenes, neuropeptides, integrins).

197 JA Rosado; LJ Garcia; GM Salido. Ionic requirements in histamine-evoked potassium efflux in guinea pig pancreas. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 53 - 2, pp. 231 - 237. PAMPLONA(Spain): REV ESPANOLA FISIOLOGIA, 06/1997. Available on-line at: <http://www.ncbi.nlm.nih.gov/pubmed/9291535>. ISSN 0034-9402

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 0.067
Journal in the top 25%: No

Position of publication: 65

Source of citations: WOS **Citations:** 0

Relevant results: Guinea pig pancreatic segments were superfused during 10 min with physiological saline solutions containing 10(-6) M acetylcholine (ACh) or histamine (10(-3)-10(-6) M) and the potassium concentration in the effluent [K+]o) was measured by flame photometry. Histamine evoked a transient increase in [K/]o. The removal of calcium from the superfusing solution and addition of 10(-4) M EGTA caused a significant reduction in the histamine-evoked potassium outflow. Replacement of chloride (Cl-) in the physiological salt solution by nitrate (NO3-) caused a significant reduction in the histamine-evoked potassium release. However, when Cl- was replaced by bromide (Br-) the response to histamine was unaffected. Pre-treatment of pancreatic segments with furosemide (10(-4 M) or ouabain (10(-3) M) caused a marked reduction in the histamine-induced potassium release. The results suggest that ionic requirements in histamine-evoked potassium release are the same as those in acetylcholine-evoked potassium efflux.

198 JA Rosado; J Singh; GM Salido; LJ Garcia. Acetylcholine-evoked potassium transport in the isolated guinea-pig pancreas. EXPERIMENTAL PHYSIOLOGY. 82 - 1, pp. 149 - 159. MALDEN(United Kingdom): CAMBRIDGE UNIV PRESS, 01/1997. Available on-line at: <http://ep.physoc.org/content/82/1/149.long>. ISSN 0958-0670

Type of production: Scientific paper **Format:** Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - PHYSIOLOGY

Impact index in year of publication: 1.526 **Journal in the top 25%:** No

Position of publication: 23

Source of citations: WOS **Citations:** 2

Relevant results: In this study, K+ concentration was measured in effluent samples from superfused guinea-pig pancreatic pieces in control conditions and during stimulation with ACh, employing the technique of flame photometry. ACh (10(-7)-10(-5) M) evoked a dose-dependent and sustained increase in K+ concentration in the effluent (K+ release). The removal of Ca2+ from the superfusing medium and the addition of 10(-4) M EGTA caused a significant ($P < 0.05$) reduction in the ACh-evoked K+ efflux. Replacement of extracellular Cl- in the superfusing physiological salt solution with NO3- abolished the ACh-induced K+ efflux. In contrast, when Cl- was replaced with Br-, ACh still evoked marked K+ release. Pretreatment of pancreatic segments with the loop diuretic furosemide (10(-4) M) resulted in an inhibition of K+ efflux elicited by ACh. Stimulation of pancreatic segments with the Na(+)-K(+)-ATPase inhibitor ouabain (10(-3) M) caused a large efflux of K+. In the continuous presence of ouabain, ACh application elicited no further change in the K+ release. The results indicate that ACh-evoked K+ release from guinea-pig pancreatic segments is sensitive to ouabain, Cl-, furosemide and extracellular Ca2+ and that only the basal efflux is augmented by ouabain. The findings provide further evidence that a diuretic-sensitive coupled Na(+)-K(+)-Cl- cotransport system operates in the guinea-pig pancreas, as it does in other similar transporting epithelia, to bring about K+ mobilization.

199 S Alcon; JA Rosado; LJ Garcia; JA Pariente; GM Salido; MJ Pozo. Secretin potentiates guinea pig pancreatic response to cholecystokinin by a cholinergic mechanism. CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. 74 - 12, pp. 1342 - 1350. OTTAWA(Canada): NATL RESEARCH COUNCIL CANADA, 12/1996. Available on-line at: <http://www.ncbi.nlm.nih.gov/pubmed/9047045>. ISSN 0008-4212

Type of production: Scientific paper **Format:** Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: ISI **Category:** Science Edition - PHYSIOLOGY

Impact index in year of publication: 1.275 **Journal in the top 25%:** No

Position of publication: 28

Source of citations: WOS **Citations:** 4

Relevant results: The effects of secretin and cholecystokinin on exocrine pancreas secretion in the guinea pig were investigated. The putative potentiating effect of these two hormones was studied in various settings to elucidate the effect of cholinergic stimuli in such interaction. In anesthetized guinea pig, intravenous infusion of

cholecystokinin (0.75 pmol.kg-1.min-1) or secretin (0.5 pmol.kg-1.min-1) resulted in a marked and rapid increase of pancreatic juice flow and protein output. When cholecystokinin was combined with secretin, there was a significant increase in pancreatic, compared with cholecystokinin alone. This increase in pancreatic juice secretion and protein output was significantly suppressed by the prior administration of 100 micrograms/kg atropine. Similar results were obtained when trypsinogen release from pancreatic segments was measured in response to cholecystokinin (32 nM-32 pM) and (or) secretin (1 microM-32 nM). When we assayed the hormonal interaction on amylase release from dispersed pancreatic acini, we found that secretin (32 nM) failed to influence the secretory response to cholecystokinin (1 pM-10 nM). Thus we conclude that a combination of cholecystokinin and secretin resulted in a marked potentiation of the secretory responses in the exocrine guinea pig pancreas by a mechanism that involves cholinergic interactions present at the tissue level but not at the dispersed secretory cell level.

200 JA Rosado; JA Tapia; LJ Garcia; GM Salido. Histamine-evoked potassium release in the mouse and guinea pig pancreas. PANCREAS. 12 - 4, pp. 396 - 400. PHILADELPHIA(United States of America): LIPPINCOTT-RAVEN PUBL, 05/1996. Available on-line at: <http://www.ncbi.nlm.nih.gov/pubmed/8740408>. ISSN 0885-3177

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: ISI
Category: Science Edition - PHYSIOLOGY
Impact index in year of publication: 1.138
Journal in the top 25%: No
Position of publication: 27
Source of citations: WOS
Citations: 4

Relevant results: An investigation was made of the effects of histamine on the K+ concentration in the effluent in superfused guinea pig and mouse pancreatic segments. The effect of acetylcholine (ACh) was examined for comparison. Histamine evoked a dose-dependent and transient increase in the K+ concentration in the effluent (K+ release) but is less potent compared to the cholinergic agonist, ACh. At the same doses histamine and ACh evoke a much larger K+ release from mouse superfused pancreatic segments followed in the poststimulus period by a reuptake of K+. However, this reuptake of K+ was not observed in guinea pig superfused pancreatic segments. On the other hand, the cholinergic antagonist, atropine, completely abolished the K+ release in response to ACh and histamine from mouse and guinea pig pancreatic segments. Our results show the involvement of histamine in the control of K+ release in pancreatic tissue, with significant differences in the observed responses between species.

201 Jose Javier Lopez; Gines M. Salido; Juan Antonio Rosado. Cardiovascular and Hemostatic Disorders: SOCE and Ca2+ Handling in Platelet Dysfunction. Store-operated Ca2+ entry (SOCE) pathways. 993, pp. 453 - 472. Viena(Austria): SPRINGER, 2017. Available on-line at: <doi: 10.1007/978-3-319-57732-6_23.>. ISBN 978-3-319-57732-6

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 3
Corresponding author: Yes
Relevant results: Editor: Juan A. Rosado
Relevant publication: Yes

202 Juan Antonio Rosado. Introduction: Overview of the Pathophysiological Implications of Store-Operated Calcium Entry in Mammalian Cells. Store-operated Ca2+ entry (SOCE) pathways. 993, pp. 391 - 395. Viena(Austria): SPRINGER, 2017. Available on-line at: <doi: 10.1007/978-3-319-57732-6_20>. ISBN 978-3-319-57732-6

Type of production: Book chapter
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 1
Corresponding author: Yes
Relevant results: Editor: Juan A. Rosado
Relevant publication: Yes

203 Jose Javier Lopez Barba; Letizia Albarrán Alonso; Ginés M. Salido Ruiz; Juan Antonio Rosado. Historical Overview of Store-Operated Ca2+ Entry. CALCIUM ENTRY PATHWAYS IN NON-EXCITABLE CELLS. 898, pp. 3 - 24. Viena(Austria): SPRINGER, 2016. Available on-line at: <http://www.springer.com/in/book/9783319269726 doi: 10.1007/978-3-319-26974-0_1>. ISBN 978-3-319-26972-6

Type of production: Book chapter
Format: Book
Position of signature: 4
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 4
Corresponding author: Yes
Relevant results: Editor: Juan A. Rosado
Relevant publication: Yes

204 Tarik Smani; Alejandro Dominguez Rodriguez; Paula Callejo García; Juan Antonio Rosado; Javier Avila Medina. Phospholipase A2 as a molecular determinant of store-operated calcium entry. CALCIUM ENTRY PATHWAYS IN NON-EXCITABLE CELLS. 898, pp. 111 - 131. Viena(Austria): SPRINGER, 2016. Available on-line at: <http://www.springer.com/in/book/9783319269726 doi: 10.1007/978-3-319-26974-0_6>. ISBN 978-3-319-26972-6

Type of production: Book chapter
Format: Book
Position of signature: 4
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 5
Corresponding author: No
Relevant results: Editor: Juan A. Rosado
Relevant publication: Yes

205 Alejandro Berna-Erro; Isaac Jardin Polo; Juan Antonio Rosado. Regulation of Platelet Function by Orai, STIM and TRP. CALCIUM ENTRY PATHWAYS IN NON-EXCITABLE CELLS. 898, pp. 157 - 181. Viena(Austria): SPRINGER, 2016. Available on-line at: <http://www.springer.com/in/book/9783319269726 doi: 10.1007/978-3-319-26974-0_8.>. ISBN 978-3-319-26972-6

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 3
Corresponding author: Yes
Relevant results: Editor: Juan A. Rosado
Relevant publication: Yes

206 Alexandre Bouron; Sylvain Chauvet; Stuart Dryer; Juan Antonio Rosado. Second messenger-operated calcium entry through TRPC6. CALCIUM ENTRY PATHWAYS IN NON-EXCITABLE CELLS. 898, pp. 201 - 249. Viena(Austria): SPRINGER, 2016. Available on-line at: <http://www.springer.com/in/book/9783319269726 doi: 10.1007/978-3-319-26974-0_10>. ISBN 978-3-319-26972-6

Type of production: Book chapter
Format: Book
Position of signature: 4
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 4
Corresponding author: No
Relevant results: Editor: Juan A. Rosado
Relevant publication: Yes

207 Pedro Cosme Redondo; Alejandro Berna Erro; Natalia Dionisio; Juan Antonio Rosado Dionisio. Fluorescence-Based Measurements of the CRAC Channel Activity in Cell Populations.Methods in Molecular Biology. 1843, pp. 69 - 82. Springer, 2018. Available on-line at: <doi: 10.1007/978-1-4939-8704-7_6>. ISBN 978-1-4939-8702-3

Type of production: Book chapter
Format: Book
Position of signature: 4
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 4
Corresponding author: Yes

208 Geoffrey E Woodard; Isaac Jardin Polo; Alejandro Berna-Erro; Gines Salido Ruiz; Juan A. Rosado. Regulators of G-protein-signaling proteins: negative modulators of g-protein-coupled receptor signaling.INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. 317, pp. 97 - 183. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2015. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1937644815000088 doi: 10.1016/bs.ircmb.2015.02.001>. ISBN 978-0-12-802281-8

Type of production: Book chapter
Format: Book
Position of signature: 5
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 5
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.522
Journal in the top 25%: Yes
Position of publication: 68
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Regulators of G-protein-signaling (RGS) proteins are a category of intracellular proteins that have an inhibitory effect on the intracellular signaling produced by G-protein-coupled receptors (GPCRs). RGS along with RGS-like proteins switch on through direct contact G-alpha subunits providing a variety of intracellular functions through intracellular signaling. RGS proteins have a common RGS domain that binds to G alpha. RGS proteins accelerate GTPase and thus enhance guanosine triphosphate hydrolysis through the alpha subunit of heterotrimeric G proteins. As a result, they inactivate the G protein and quickly turn off GPCR signaling thus terminating the resulting downstream signals. Activity and subcellular localization of RGS proteins can be changed through covalent molecular changes to the enzyme, differential gene splicing, and processing of the protein. Other roles of RGS proteins have shown them to not be solely committed to being inhibitors but behave more as modulators and integrators of signaling. RGS proteins modulate the duration and kinetics of slow calcium oscillations and rapid phototransduction and ion signaling events. In other cases, RGS proteins integrate G proteins with signaling pathways linked to such diverse cellular responses as cell growth and differentiation, cell motility, and intracellular trafficking. Human and animal studies have revealed that RGS proteins play a vital role in physiology and can be ideal targets for diseases such as those related to addiction where receptor signaling seems continuously switched on.

209 Pedro C. Redondo Liberal; Juan A. Rosado. Store-operated calcium entry: unveiling the calcium handling signalplex. INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. 316, pp. 183 - 226. AMSTERDAM, Noord-Holland(Holland): ELSEVIER SCIENCE BV, 2015. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S1937644815000088 doi: 10.1016/bs.ircmb.2015.01.007>. ISBN 978-0-12-802281-8

Type of production: Book chapter
Format: Book
Position of signature: 2
Degree of contribution: Author or co-author of chapter in book
Impact source: ISI
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Impact index in year of publication: 4.522
Journal in the top 25%: Yes
Position of publication: 68
No. of journals in the cat.: 291
Source of citations: WOS
Citations: 0

Relevant results: Store-operated Ca(2+) entry (SOCE) is an important mechanism for Ca(2+) influx in non-excitable cells, also present in excitable cells. The activation of store-operated channels (SOCs) is finely regulated by the filling state of the intracellular agonist-sensitive Ca(2+) compartments, and both, the mechanism of sensing the Ca(2+) stores and the nature and functional properties of the SOCs, have been a matter of intense investigation and debate. The identification of STIM1 as the endoplasmic reticulum Ca(2+) sensor and both Orai1, as the pore-forming subunit of the channels mediating the Ca(2+)-selective store-operated current, and the members of the TRPC subfamily of proteins, as the channels mediating the cation-permeable SOCs, has shed new light on the underlying events. This review summarizes the initial hypothesis and the current advances on the mechanism of activation of SOCE.

210 Pedro Cosme Redondo; Alejandro Berna Erro; Juan Antonio Rosado. ENDOTHELIAL CELLS AND THE REGULATION OF PLATELET FUNCTION.ENDOTHELIAL CYTOSKELETON. pp. 200 - 230. Enfield(United States of America): SCIENCE PUBLISHERS, 2013. ISBN 978-14-665-9035-9

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

211 José Javier Lopez; Ginés María Salido; Juan Antonio Rosado. SOCE AND CALCIUM HANDLING IN PLATELET DYSFUNCTION. STORE-OPERATED CALCIUM ENTRY PATHWAYS. pp. 377 - 396. Viena(Austria): SPRINGER-VERLAG, 2012. Available on-line at: <http://www.springer.com/biomed/molecular/book/978-3-7091-0961-8>. ISBN 978-3-7091-0962-5

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

212 Alejandro Berna Erro; Pedro Cosme Redondo; Juan Antonio Rosado. STORE-OPERATED CA2+ ENTRY PATHWAYS. Calcium Signalling. pp. 349 - 382. LONDRES(United Kingdom): SPRINGER, 2012. ISBN 978-94-007-2887-5

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

213 Juan Antonio Rosado. THE STORE-OPERATED CALCIUM ENTRY PATHWAY. Calcium Signalling. pp. 37 - 59. Hauppauge(United States of America): NOVA PUBLISHER, 2012. ISBN 978-1-61324-313-8

Type of production: Book chapter
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Relevant results: Store-operated calcium entry is a major mechanism for calcium influx in non-excitable, but also in excitable, cells. This event is regulated by the filling state of the intracellular calcium stores, which, upon depletion, evoke the opening of calcium permeable channels in the plasma membrane. Recent studies have revealed that the protein STIM1 (Stromal Interaction Molecule-1) acts as a calcium sensor that communicates information about the amount of calcium stored to the plasma membrane. STIM1 has also been located in the plasma membrane where it can regulate calcium channel gating. A number of studies have revealed that the calcium channels in the plasma membrane involve the protein Orai1, which shows a high selectivity for calcium. Since certain store-operated currents are not calcium selective, other channels, such as those of the TRP family, have been presented as candidates to conduct calcium entry. Store-operated calcium entry plays an important role in the regulation of a number of cellular functions and dysregulation of this mechanism leads to a number of dysfunctions.

214 Juan A. Rosado. EL CALCIO INTRACELULAR EN LA FUNCIÓN Y DISFUNCIÓN PLAQUETARIA. LIBRO DE LA SOCIEDAD ESPAÑOLA DE TROMBOSIS Y HEMOSTASIA. 5, pp. 23 - 33. Madrid(Spain): Grupo Acción Médica, S.A., 2011. ISBN 978-84-88336-93-4

Type of production: Book chapter
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book

Source of citations: WOS

215 Isaac Jardin; Pedro Cosme Redondo; Ginés Maria Salido; Juan Antonio Rosado. Pathophysiological implications of calcium signalling in platelets. FROM CARDIOVASCULAR CELL BIOLOGY TO CARDIOVASCULAR MEDICINE. pp. 143 - 157. Kerala(India): Research Signpost Transworld Research Network, 2011. Available on-line at: <http://ressign.com/UserBookDetail.aspx?bkid=1138&catid=249>. ISBN 978-81-7895-503-2

Type of production: Book chapter
Format: Book
Position of signature: 4

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

216 Gines M. Salido; Isaac Jardin; Juan A. Rosado. The TRPC Ion Channels: Association with Orai1 and STIM1 Proteins and Participation in Capacitative and Non-capacitative Calcium Entry. TRANSIENT RECEPTOR POTENTIAL CHANNELS. 704, pp. 413 - 433. Nueva York(United States of America): SPRINGER, 2011. Available on-line at: <http://link.springer.com/chapter/10.1007%2F978-94-007-0265-3_23>. ISSN 0065-2598, ISBN 978-94-007-0264-6

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of chapter in book
Source of citations: WOS
Citations: 8

Relevant results: Transient receptor potential (TRP) proteins are involved in a large number of non-selective cation channels that are permeable to both monovalent and divalent cations. Two general classes of receptor-mediated Ca(2+) entry has been proposed: one of then is conduced by receptor-operated Ca(2+) channels (ROC), the second is mediated by channels activated by the emptying of intracellular Ca(2+) stores (store-operated channels or SOC). TRP channels have been presented as subunits of both ROC and SOC, although the precise mechanism that regulates the participation of TRP proteins in these Ca(2+) entry mechanisms remains unclear. Recently, TRPC proteins have been shown to associate with Orai1 and STIM1 in a dynamic ternary complex regulated by the occupation of membrane receptors in several cell models, which might play an important role in the function of TRPC proteins. The present review summarizes the current knowledge concerning the association of TRP proteins with Orai and STIM proteins and how this affects the participation of TRP proteins in store-operated or receptor-operated Ca(2+) entry.

217 J. A. Rosado. Apoptotic Events in Blood Cells. APOPTOSIS: INVOLVEMENT OF OXIDATIVE STRESS AND INTRACELLULAR CA2+ HOMEOSTASIS. pp. 129 - 150. New York(United States of America): SPRINGER, 2009. Available on-line at: <http://link.springer.com/chapter/10.1007%2F978-1-4020-9873-4_6?LI=true>. ISBN 978-1-4020-9872-7

Type of production: Book chapter
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book
Source of citations: WOS
Citations: 0

Relevant results: Cells undergo apoptotic events during development, tissue homeostasis or disease and are subsequently cleared by phagocytes, inducing changes in the immune response. Lymphocyte apoptosis is responsible for the homeostasis of immune cells and plays an essential role in the elimination of autoreactive lymphocytes. Apoptosis also modulates neutrophil life span, regulating the balance between their function as effectors of the immune system and the clearance of potentially harmful cells. Programmed mammalian red blood cells death, or eryptosis, is a special form of apoptosis that shows all features of apoptosis, except nuclear condensation. Similarly, platelets, small, anuclear cytoplasmic fragments, develop apoptotic events that regulates platelet life span. Apoptotic events, which are enhanced in mature megakaryocytes, the platelet precursors, have been proposed as a major force driving proplatelet formation and platelet release. In addition to apoptosis, platelets undergo apoptotic-like events, including the rapid and reversible activation of caspase 3, that are essential for platelet Ca2+ signalling and aggregation independently of programmed cell death. Finally elevated apoptosis and enhanced oxidative stress in peripheral blood cells, such as platelets and lymphocytes, have been proposed as a biomarker for Alzheimer disease. This chapter describes the physiological and pathological implications of apoptosis in blood cells.

218 Juan Antonio Rosado. General Aspects of Hemostasis. Textbook of hemostasis and blood coagulation. pp. 1 - 20. Kerala(India): Research Signpost Transworld Research Network, 2009. Available on-line at: <http://www.ressign.com/UserBookDetail.aspx?bkid=909&catid=196>. ISBN 978-81-308-0345-6

Type of production: Book chapter
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

219 Pedro Cosme Redondo; Juan Antonio Rosado. Thromboembolic Disorders. Textbook of hemostasis and blood coagulation. pp. 81 - 98. Kerala(India): Research Signpost Transworld Research Network, 2009. Available on-line at: <http://www.ressign.com/UserBookDetail.aspx?bkid=909&catid=196>. ISBN 978-81-308-0345-6

Type of production: Book chapter
Format: Book
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

220 Geoffrey E. Woodard; Juan A. Rosado. Natriuretic peptides in vascular physiology and pathology. INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. 268, pp. 59 - 93. Amsterdam, Noord-Holland(Holland): ELSEVIER ACADEMIC PRESS INC, 2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0167488907001905>. ISSN 1937-6448, ISBN 978-0-12-374375-6

Type of production: Book chapter
Format: Book
Position of signature: 2
Degree of contribution: Author or co-author of chapter in book
Source of citations: WOS
Citations: 21

Relevant results: Four major natriuretic peptides have been isolated: atrial natriuretic peptide (ANP), brain natriuretic peptide (BNP), C-type natriuretic peptide (CNP), and Dendroaspis-type natriuretic peptide (DNP). Natriuretic peptides play an important role in the regulation of cardiovascular homeostasis maintaining blood pressure and extracellular fluid volume. The classical endocrine effects of natriuretic peptides to modulate fluid and electrolyte balance and vascular smooth muscle tone are complemented by autocrine and paracrine actions that include regulation of coronary blood flow and, therefore, myocardial perfusion; modulation of proliferative responses during myocardial and vascular remodeling; and cytoprotective anti-ischemic effects. The actions of natriuretic peptides are mediated by the specific binding of these peptides to three cell surface receptors: type A natriuretic peptide receptor (NPR-A), type B natriuretic peptide receptor (NPR-B), and type C natriuretic peptide receptor (NPR-C). NPR-A and NPR-B are guanylyl cyclase receptors that increase intracellular cGMP concentration and activate cGMP-dependent protein kinases. NPR-C has been presented as a clearance receptor and its activation also results in inhibition of adenylyl cyclase activity. The wide range of effects of natriuretic peptides might be the base for the development of new therapeutic strategies of great benefit in patients with cardiovascular problems including coronary artery disease or heart failure. This review summarizes current literature concerning natriuretic peptides, their receptors and their effects on fluid/electrolyte balance, and vascular and cardiac physiology and pathology, including primary hypertension and myocardial infarction. In addition, we will attempt to provide an update on important issues regarding natriuretic peptides in congestive heart failure.

221 Geoffrey E. Woodard; Stewart O. Sage; Juan A. Rosado. Transient receptor potential channels and intracellular signaling. INTERNATIONAL REVIEW OF CYTOLOGY-A SURVEY OF CELL BIOLOGY. 256, pp. 35 - 67. Amsterdam, Noord-Holland(Holland): ELSEVIER ACADEMIC PRESS INC, 2007. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S007476960756002X>. ISSN 0074-7696, ISBN 978-0-12-373700-7

Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of chapter in book
Source of citations: WOS
Citations: 4

Relevant results: The transient receptor potential (TRP) family of ion channels is composed of more than 50 functionally versatile cation-permeant ion channels expressed in most mammalian cell types. Considerable research has been brought to bear on the members of this family, especially with regard to their possible role as store-operated calcium channels, although studies have provided evidence that TRP channels exhibit a number of regulatory and functional aspects. Endogenous and transiently expressed TRP channels can be activated by different mechanisms grouped into four main categories: receptor-operated activation, store depletion-mediated activation, ligand-induced activation, and direct activation. This article reviews the biochemical characteristics of the different members of the TRP family and summarizes their involvement in a number of physiological events ranging from sensory transduction to development, which might help in understanding the relationship between TRP channel dysfunction and the development of several diseases.

222 GE Woodard; JA Rosado. G-protein coupled receptors and calcium signaling in development. CURRENT TOPICS IN DEVELOPMENTAL BIOLOGY. 65, pp. 189 - 210. SAN DIEGO(United States of America): ELSEVIER ACADEMIC PRESS INC, 2005. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0070215304650071>. ISSN 0070-2153

Type of production: Book chapter
Format: Book
Position of signature: 2
Degree of contribution: Author or co-author of chapter in book
Impact source: ISI
Category: Science Edition - DEVELOPMENTAL BIOLOGY
Impact index in year of publication: 3.925
Journal in the top 25%: No
Position of publication: 9
No. of journals in the cat.: 33
Source of citations: WOS
Citations: 93

223 José Antonio Pariente LLanos; Pedro Cosme Redondo; MP Granados; AI Lajas; Antonio González; Juan Antonio Rosado; Ginés María Salido. Calcium signalling in non-excitable cells. INT. J. EUROPEAN CITIZEN´S QUALITY OF LIFE. 1, pp. 29 - 43. Athens(Greece): UNIVERSITY OF ATHENS, 2003.

Type of production: Book chapter
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

224 Juan Antonio Rosado; SO Sage. Platelet signalling: calcium movements. Platelets in Thrombotic and Non-Thrombotic Disorders: Pathophysiology, Pharmacology and Therapeutics. pp. 260 - 271. CAMBRIDGE(United Kingdom): Cambridge University Press, 2002. ISBN 0-52-180261-X

Type of production: Book chapter
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book

225 Juan Antonio Rosado. PAPEL DE LAS BALSAS LIPIDICAS DE LA MEMBRANA PLASMATICA EN LA ENTRADA DE CALCIO A LA CELULA. siicsalud. Buenos Aires(Argentina): la Sociedad Iberoamericana de Información Científica, 2010. Available on-line at: <http://www.siicsalud.com/dato/resiic.php/117999>. ISSN 1667-9008

Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of educational publication
Relevant results: Las balsas lipídicas de la membrana plasmática desempeñan un papel muy importante en la interacción entre el sensor de calcio de los almacenes intracelulares, STIM1, y los canales de calcio de la membrana plasmática, y regulan la participación de dichos canales en la entrada capacitativa de calcio u otras rutas de entrada de calcio a la célula.

Works submitted to national or international conferences

1 **Title of the work:** (–) -OLEOCANTHAL IMPA IRS PROL IFERAT ION AND MIGRATION IN TRIPLE NEGATIVE BREAST CANCER CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas
Type of entity: Associations and Groups

City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Raquel Diez Bello; Mohammed El Haouari; J Ortega Vidal; Isaac Jardin; Jose J. Lopez; Sofia Salido; Joaquin Altarejos; Juan Antonio Rosado. En: Journal of Physiology and Biochemistry. supplement, pp. 46 - 46. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

2 **Title of the work:** EF-HAND DOMAIN FAMILY MEMBER B REGULATES STOREOPERATED CALCIUM ENTRY AND MIGRATION IN BREAST CANCER CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Isaac Jardin; Raquel Diez Bello; Jose J. Lopez; Gines M. Salido; Juan Antonio Rosado. En: Journal of Physiology and Biochemistry. supplement, pp. 45 - 45. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

3 **Title of the work:** EF-Hand domain family member B regulates SOCE by the modulation of the dynamic association of STIM1 with SOCE-associated regulatory factor
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Jose J. Lopez; Letizia Albarran; Isaac Jardin; Jose Sanchez Collado; Alejandro Berna Erro; Tarik Smani; Pedro J. Camello; Gines M. Salido; Juan Antonio Rosado. En: Journal of Physiology and Biochemistry. supplement, pp. 21 - 21. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

4 **Title of the work:** PROGESTERONE EVOKES INTRACELLULAR CALCIUM MOBILIZATION THROUGH THE ACTIVATION OF THE PROGESTERONE RECEPTOR MEMBRANE COMPONENT 1 (PGRMC1) IN TRIPLE-NEGATIVE BREAST CANCER MDA-MB231 CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018

End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Carlos Cantonero; Gines M. Salido; Juan Antonio Rosado; Pedro C. Redondo. En: Journal of Physiology and Biochemistry. supplement, pp. 22 - 22. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

5 **Title of the work:** ROLE OF ORAI1 AND SARAF IN VASCULAR SMOOTH MUSCLE CELLS PROLIFERATION
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Javier Avila Medina; Eva Calderon Sanchez; M Martín Bomez; Juan Antonio Rosado; Antonio Ordoñez; Tarik Smani. En: Journal of Physiology and Biochemistry. supplement, pp. 49 - 49. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

6 **Title of the work:** SIGMA-2 RECEPTOR IS A NEGATIVE REGULATOR OF STOREOPERATED CA2+ ENTRY IN MDA-MB-231 CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Carlos Cantonero; Isaac Jardin; Raquel Diez Bello; Gines M. Salido; Juan Antonio Rosado; Pedro C. Redondo. En: Journal of Physiology and Biochemistry. supplement, pp. 47 - 47. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

7 **Title of the work:** STIM1 PHOSPHORYLATION AT Y316 EVOKES SARAF/STIM1 COMPLEX DISSOCIATION AND FACILITATES SOCE IN NG115- 401L NEUROBLASTOMA CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018

End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Carlos Cantonero; Juan Antonio Rosado; Gines M. Salido; Irene Frischauf; Isaac Jardin; Pedro C. Redondo. En: Journal of Physiology and Biochemistry. supplement, pp. 46 - 46. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

8 **Title of the work:** Sigma-2 receptor is an inhibitor of proliferation and migration in triple-negative breast cancer cells, MDA-MB-231 cells
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Carlos Cantonero; Gines M. Salido; Juan Antonio Rosado; Pedro C. Redondo. En: Journal of Physiology and Biochemistry. supplement, pp. 22 - 22. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

9 **Title of the work:** TMEM97 IS INVOLVED IN THE REGULATION OF SOCE IN MDAMB-231 CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Gines M. Salido; Juan Antonio Rosado; Pedro C. Redondo; Carmen Abate; Carlos Cantonero. En: Journal of Physiology and Biochemistry. supplement, pp. 45 - 45. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

10 **Title of the work:** TRANSIENT RECEPTOR POTENTIAL CANONICAL 6 CHANNELS MODULATE STORE-OPERATED CALCIUM ENTRY IN BREAST CANCER CELLS
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018

End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Isaac Jardin; Raquel Diez Bello; Jose J. Lopez; Gines M. Salido; Juan Antonio Rosado. En: Journal of Physiology and Biochemistry. supplement, pp. 23 - 23. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

11 **Title of the work:** UROCORTIN-2 PREVENTS DYSREGULATION OF CA2+ HOMEOSTAS IS AND IMPROVES EARLY CARD IAC REMODELING AFTER ISCHEMIA AND REPERFUSION
Name of the conference: XXXIX Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Cádiz, Andalusia, Spain
Date of event: 18/09/2018
End date: 21/09/2018
Organising entity: Sociedad Española de Ciencias Fisiológicas **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Isabel Mayoral Gonzalez; Alejandro Dominguez Rodriguez; Javier Avila Medina; ES de Rojas de Pedro; Eva Calderon Sanchez; Juan Antonio Rosado; JP Benitah; Ana María Gomez; Antonio Ordoñez; Tarik Smani. En: Journal of Physiology and Biochemistry. supplement, pp. 25 - 25. Foral Community of Navarre (Spain): Springer, Available on-line at: <https://link.springer.com/article/10.1007/s13105-018-0656-7>. ISSN 1138-7548

12 **Title of the work:** Fine-tuning of store-operated Ca2+ entry by SARAF and EFHB
Name of the conference: 6th International Iberian Biophysics Congress and X Iberoamerican Congress of Biophysics
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
Corresponding author: Yes
City of event: Castellón, Valencian Community, Spain
Date of event: 20/06/2018
End date: 22/06/2018
Organising entity: Sociedad Biofísica de España
City organizing entity: Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Juan Antonio Rosado Dionisio. En: Biofísica. S2, pp. 56 - 56. (Spain): Sociedad Biofísica de España, Available on-line at: <https://www.uv.es/biophys/sbe/S/book_of_abstracts_S2.pdf>. ISSN 2445-4311

13 **Title of the work:** TRPC6 channels regulate the plasma membrane location of orai channels in breast cancer cells
Name of the conference: 6th International Iberian Biophysics Congress and X Iberoamerican Congress of Biophysics
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
Corresponding author: Yes

City of event: Castellón, Valencian Community, Spain
Date of event: 20/06/2018
End date: 22/06/2018
Organising entity: Sociedad Biofísica de España
City organizing entity: Spain
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Isaac Jardin; Raquel Diez Bello; Jose J Lopez; Carlos Cantonero; Gines M Salido; Juan Antonio Rosado Dionisio. En: Biofísica. S2, pp. 122 - 122. (Spain): Sociedad Biofísica de España, Available on-line at: <https://www.uv.es/biophys/sbe/S/book_of_abstracts_S2.pdf>. ISSN 2445-4311

14 **Title of the work:** Adaptación pancreática a la dieta hipercalórica: papel de la STC2 en la adaptación al estrés pancreático
Name of the conference: XIV Congreso Nacional de la Sociedad Española para las Ciencias del Animal de Laboratorio
Type of event: Conference
Geographical area: National
Type of participation: Participatory - oral communication
Reasons for participation: Open access
Corresponding author: No
City of event: Las Palmas de Gran Canaria, Spain
Date of event: 13/06/2017
End date: 16/06/2017
Organising entity: Sociedad Española para las Ciencias del Animal de Laboratorio (SECAL)
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
Luis Gomez Gordo; Carlos Cantonero; Mª Jose Tarancon Rubio; Manuel Duran Luis; Maria Reyes Panadero; Juan Antonio Rosado Dionisio; Pedro Cosme Redondo Liberal. En: Laboratory Animals. 2017.

15 **Title of the work:** Efecto de diferentes protocolos de superovulación en ratones de la cepa C57BL/6JOlaHSd
Name of the conference: XIV Congreso Nacional de la Sociedad Española para las Ciencias del Animal de Laboratorio
Type of event: Conference
Geographical area: National
Type of participation: Participatory - oral communication
Reasons for participation: Open access
Corresponding author: No
City of event: Las Palmas de Gran Canaria, Spain
Date of event: 13/06/2017
End date: 16/06/2017
Organising entity: Sociedad Española para las Ciencias del Animal de Laboratorio (SECAL)
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
Nuria Hernandez Rollan; M Durán Luis; Pedro Cosme Redondo Liberal; Juan Antonio Rosado Dionisio; E Matilla; C Tobajas; MJ Tarancón Rubio; J Mijares; Francisco Sanchez Margallo; B Macias Garcia. "Efecto de diferentes protocolos de superovulación en ratones de la cepa C57BL/6JOlaHSd". En: Laboratory Animals. 2017.

16 **Title of the work:** Identificación de filamina A como un nuevo regulador de la entrada capacitativa de calcio en plaquetas humanas
Name of the conference: XXXII Congreso Nacional de la Sociedad Española de Trombosis y Hemostasis (SETH)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 20/10/2016
End date: 22/10/2016
Organising entity: Sociedad Española de Trombosis y Hemostasis
With external admission assessment committee: Yes
Nuria Bermejo; Raquel Diez; Jose Felix Gutierrez Gallego; Jose M. Brull; Gines Maria Salido; Pedro Cosme Redondo; Juan Antonio Rosado Dionisio; Jose Javier Lopez. En: Thrombosis and Haemostasis. suppl, pp. 112 - 112. Schattauer GmbH, ISSN 0340-6245

17 **Title of the work:** Ca2+ entry abnormalities in leukemia and breast cancer cells
Name of the conference: 14th International Meeting of the European Calcium Society (ECS)
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Valladolid, Castile and León, Spain
Date of event: 25/09/2016
End date: 29/09/2016
Organising entity: European Calcium Society
City organizing entity: Bruselas, Belgium
Juan Antonio Rosado Dionisio.

18 **Title of the work:** Role of Orai1 and Orai2 in the regulation of store-operated Ca2+ entry, migration and FAL phosphorylation in HL60 cells
Name of the conference: 14th International Meeting of the European Calcium Society (ECS)
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Valladolid, Castile and León, Spain
Date of event: 25/09/2016
End date: 29/09/2016
Organising entity: European Calcium Society
City organizing entity: Bruselas, Belgium
Gines M. Salido; Raquel Diez; Isaac Jardin; Juan Antonio Rosado Dionisio.

19 **Title of the work:** Role of filamin A as a modulator of store-operated Ca2+ entry
Name of the conference: 14th International Meeting of the European Calcium Society (ECS)
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Valladolid, Castile and León, Spain
Date of event: 25/09/2016
End date: 29/09/2016
Organising entity: European Calcium Society

City organizing entity: Bruselas, Belgium
Jose Javier Lopez; Letizia Albarran; Jose Felix Gutierrez Gallego; Gines M. Salido; Juan Antonio Rosado Dionisio.

20 **Title of the work:** Role of SARAF in the regulation of Ca+ entry
Name of the conference: XXXVIII Congress of the Spanish Society of Physiological Sciences (SECF)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Zaragoza, Aragon, Spain
Date of event: 13/09/2016
End date: 19/09/2016
Organising entity: Sociedad Española de Ciencias Fisiológicas
With external admission assessment committee: Yes
Juan Antonio Rosado Dionisio. En: Journal of Physiology and Biochemistry. 72, pp. S16 - S16.

21 **Title of the work:** Orai1 and TRPC1 interact with Cav1.2 L-type Ca2+ channels in mouse and rat vascular smooth muscle cells
Name of the conference: XXXVIII Congress of the Spanish Society of Physiological Sciences (SECF)
Geographical area: Non EU International
Corresponding author: No
City of event: Zaragoza, Aragon, Spain
Date of event: 13/09/2016
End date: 19/09/2016
Organising entity: Sociedad Española de Ciencias Fisiológicas
With external admission assessment committee: Yes
Javier Avila; Eva Calderon Sanchez; Paula Callejo Garcia; Juan Antonio Rosado Dionisio; Antonio Ordoñez; Tarik Smani. En: Journal of Physiology and Biochemistry. 72, pp. S99 - S99.

22 **Title of the work:** A sociological study of animal testing
Name of the conference: I Iberian Congress for Laboratory Animal Science (XIII Congreso SECAL-III Congreso SPCAL)
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
Corresponding author: No
City of event: Caceres, Spain
Date of event: 18/11/2015
End date: 20/11/2015
Organising entity: Sociedad Española para las Ciencias del Animal de Laboratorio (SECAL) **Type of entity:** Associations and Groups
City organizing entity: Madrid, Spain
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
JD Largo Bermejo; Marcos Pérez López; Pedro Cosme Redondo Liberal; Juan Antonio Rosado Dionisio; Maria del Prado Míguez Santillán. "A sociological study of animal testing". En: Laboratory Animals. 49, pp. 40 - 41. SAGE journals, 2015. ISSN 0023-6772

23 **Title of the work:** Stanniocalcin 2 silencing affects glycemia in C57BL/6 mice
Name of the conference: I Iberian Congress for Laboratory Animal Science (XIII Congreso SECAL-III Congreso SPCAL)

Type of event: Conference
Geographical area: National
Type of participation: Participatory - oral communication
Reasons for participation: Open access
Corresponding author: No
City of event: Caceres, Spain
Date of event: 18/11/2015
End date: 20/11/2015
Organising entity: Sociedad Española para las Ciencias del Animal de Laboratorio (SECAL)
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
MJ Tarancón Rubio; M Durán Luis; Esther López Nieto; Maria Reyes Panadero; Juan Antonio Rosado Dionisio; Pedro Cosme Redondo Liberal. "Stanniocalcin 2 silencing affects glycemia in C57BL/6 mice". En: Laboratory Animals. 49, pp. 69 - 70. SAGE journals, 2015. ISSN 0023-6772

24 **Title of the work:** Trends in animal testing
Name of the conference: I Iberian Congress for Laboratory Animal Science (XIII Congreso SECAL-III Congreso SPCAL)
Type of event: Conference
Geographical area: National
Type of participation: Participatory - oral communication
Reasons for participation: Open access
Corresponding author: No
City of event: Caceres, Spain
Date of event: 18/11/2015
End date: 20/11/2015
Organising entity: Sociedad Española para las Ciencias del Animal de Laboratorio (SECAL)
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
JD Largo Bermejo; Pedro Cosme Redondo Liberal; Juan Antonio Rosado Dionisio; Maria del Prado Míguez Santillán; Marcos Pérez López. "Trends in animal testing". En: Laboratory Animals. 49, pp. 93 - 93. SAGE journals, 2015. ISSN 0023-6772

25 **Title of the work:** Vasoactive agonists enhance the interaction between Orai1 and CaV1.2 L-type Ca2+ channels in vascular smooth muscle cells
Name of the conference: Congreso de la Red Española de Canales Iónicos RECI V
Type of event: Conference
Geographical area: National
Type of participation: 'Participatory - poster
Reasons for participation: Open access
Corresponding author: No
City of event: Barcelona, Spain
Date of event: 04/10/2015
End date: 06/10/2015
Organising entity: Red Española de Canales Iónicos
City organizing entity: Elche, Spain
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
Javier Ávila Medina; P Callejo; Eva Calderón; Juan Antonio Rosado Dionisio; Antonio Castellano; Tarik Smani. "Libro de actas del congreso".

26 **Title of the work:** SARAF negatively regulates TRPC1 independently of STIM1
Name of the conference: 6th European Calcium Society "Calcium and cell fate" workshop
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Seillac, France
Date of event: 21/06/2015
End date: 24/06/2015
Organising entity: European Calcium Society
Type of entity: Associations and Groups
City organizing entity: Lovaina, Belgium
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
Letizia Albarrán Alonso; Jose Javier López Barba; Ginés María Salido Ruiz; Juan Antonio Rosado Dionisio. "Libro de actas del congreso".

27 **Title of the work:** STIM1 and calcium channel complexes in cancer
Name of the conference: 6th European Calcium Society "Calcium and cell fate" workshop
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Seillac, France
Date of event: 21/06/2015
End date: 24/06/2015
Organising entity: European Calcium Society
Type of entity: Associations and Groups
City organizing entity: Lovaina, Belgium
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific-technical report
Juan Antonio Rosado Dionisio. "Libro de actas del congreso".

28 **Title of the work:** Papel de stanniocalcina2 en la hiperagregabilidad plaquetaria
Name of the conference: XXX Congreso Nacional de la Sociedad Española de Trombosis y Hemostasia
Type of event: Conference
City of event: Madrid, Community of Madrid, Spain
Date of event: 06/11/2014
End date: 08/11/2014
Organising entity: Sociedad Española de Thrombosis y Hemostasia
Type of contribution: Scientific-technical report
Nuria Bermejo Vega; Esther Lopez Nieto; Juan Antonio Rosado Dionisio; Pedro Cosme Redondo Liberal. "Thrombosis and Haemostasis". suppl, pp. 198 - 198. (Germany): Schattauer, ISSN 0340-6245

29 **Title of the work:** Antiaggregant properties of phenolic esthers derived from ascorbic acid
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014

End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Gines Maria Salido Ruiz; Esther López Nieto; Sofia Salido Ruiz; Joaquín Altarejos; Juan Antonio Rosado; Pedro Cosme Redondo Liberal. "Acta Physiologica". 212 - 698, pp. 50 - 50. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

30 **Title of the work:** Modulation of TRPC6 location by STIM1
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Letizia Albarrán Alonso; Natalia Dionisio Flores; Gines Maria Salido Ruiz; Juan Antonio Rosado. "Acta Physiologica". 212 - 698, pp. 78 - 78. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

31 **Title of the work:** Regulation of non-capacitative TRP channels by immunophilins in human platelets
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Esther López Nieto; Alejandro Berna Erro; Nidhal Ben Amor; Juan Antonio Rosado; Pedro Cosme Redondo Liberal. "Acta Physiologica". 212 - 698, pp. 84 - 84. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

32 **Title of the work:** Role of L-type calcium and Orai1 channels regulation of vascular smooth muscle tone
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Javier Avila; P Gonzalez; Juan Antonio Rosado; Antonio Castellano; Antonio Ordoñez; Tarik Smani Hajami. "Acta Physiologica". 212 - 698, pp. 85 - 85. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

33 **Title of the work:** STIM1 phosphorylation at tyrosine residue Y316 affects the interaction with Orai1 and SOCE
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Juan Antonio Rosado; Esther López Nieto; Isaac Jardín Polo; Irene Frischauf; Alejandro Berna Erro; Isabella Derler; Pedro Cosme Redondo Liberal. "Acta Physiologica". 212 - 698, pp. 88 - 88. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

34 **Title of the work:** TRP channels and the calcium entry signalplex
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Juan Antonio Rosado. "Acta Physiologica". 212 - 698, pp. 13 - 13. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

35 **Title of the work:** mTOR1 and mTOR2 complexes participate in different apopototic-like mechanisms that operate during megakaryoblastic maturation and differentiation to proplatelets
Name of the conference: XXXVII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Granada, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Sevilla, Spain
Type of contribution: Scientific paper
Pedro Cosme Redondo Liberal; Esther López Nieto; Alejandro Berna Erro; Jose Javier López Barba; Raquel Diez Bello; Gines Maria Salido Ruiz; Juan Antonio Rosado. "Acta Physiologica". 212 - 698, pp. 38 - 39. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

36 **Title of the work:** Functional crosstalk between L-type Ca2+ and Orai1 channels and their regulation of vascular tone.
Name of the conference: Meeting of the FEPS and the Hungarian Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance

Corresponding author: No
City of event: Budapest, Hungary
Date of event: 27/08/2014
End date: 30/08/2014
Organising entity: FEDERATION OF EUROPEAN PHYSIOLOGICAL SOCIETIES
Type of entity: Associations and Groups
City organizing entity: Heidelberg, Germany
Type of contribution: Scientific paper
Javier Avila Medina; P Gonzalez; Juan Antonio Rosado; Antonio Castellano Orozco; Antonio Ordoñez Fernández; Tarik Smani. "Acta Physiologica". 211 - 698, pp. 93 - 93. (United Kingdom): WILEY-BLACKWELL, 2014. ISSN 1748-1708

37 **Title of the work:** Relationship between extracellular and intracellular calcium mobilization and platelet granule secretion
Name of the conference: 23rd Biennal International Congress on Thrombosis
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Valencia, Spain
Date of event: 14/05/2014
End date: 17/05/2014
Organising entity: The Mediterranean League Against Thromboembolic Diseases
Type of entity: Associations and Groups
City organizing entity: Valencia, Spain
Type of contribution: Scientific paper
Nuria Bermejo Vega; Alejandro Berna Erro; Pedro Cosme Redondo Liberal; Juan Antonio Rosado; Esther López Nieto; Gines Maria Salido Ruiz. "Thrombosis Research". 133 - 3, pp. S48 - S48. (United States of America): ELSEVIER, 2014. ISSN 0049-3848

38 **Title of the work:** Urotensin-II induces vascular smooth muscle cell proliferation and CREB phosphorylation through store-operated calcium entry and EGFR
Name of the conference: 58TH Biophysical Society Annual Meeting
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: San Francisco, United States of America
Date of event: 15/02/2014
End date: 19/02/2014
Organising entity: Biophysical Society
City organizing entity: Rockville, United States of America
Type of contribution: Scientific paper
Maria Rodriguez Moyano; Ignacio Diaz; Natalia Dionisio; Javier Avila Medina; Eva Calderón Sánchez; Juan Antonio Rosado; Antonio Ordoñez; Tarik Smani. "Biophysical Journal". pp. 318a - 318a. (United States of America): CELL PRESS, 2014. ISSN 0006-3495

39 **Title of the work:** A role for TRPA1 in store-operated Ca2+ entry: modulation of STIM1-Orai1 association
Name of the conference: 4th ECS Workshop "Ca2+ and cell death"
Type of event: Conference
Geographical area: European Union
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Leuven, Belgium
Date of event: 11/09/2013

End date: 13/09/2013
Organising entity: European Calcium Society **Type of entity:** Associations and Groups
City organizing entity: Bruselas, Belgium
Type of contribution: Scientific paper
Letizia Albarran; Jose Javier Lopez; Natalia Dionisio; Tarik Smani; Gines Salido; Juan Antonio Rosado. "Biochimica et Biophysica Acta".

40 **Title of the work:** Role of mTOR complexes in the regulation of intracelular Ca2+ homeostasis during the activation of apoptotic-dependent MEG01 maturation
Name of the conference: 4th ECS Workshop "Ca2+ and cell death"
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Leuven, Belgium
Date of event: 11/09/2013
End date: 13/09/2013
Organising entity: European Calcium Society **Type of entity:** Associations and Groups
City organizing entity: Bruselas, Belgium
Type of contribution: Scientific paper
Esther López; Alejandro Berna Erro; Raquel Diez Bello; Juan Antonio Rosado; Gines Salido; Pedro Cosme Redondo. "Biochimica et Biophysica Acta".

41 **Title of the work:** La inhibición de la actividad tirosina quinasa Src/Abl no induce disfunción plaquetaria significativa in Vitro
Name of the conference: LIV Reunión Nacional SEHH-XXVIII Congreso Nacional De La SETH
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Salamanca, Castile and León, Spain
Date of event: 18/10/2012
End date: 20/10/2012
Organising entity: La Sociedad Española de Trombosis y Hemostasia **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Type of contribution: Scientific paper
Nuria Bermejo; Esther López; Isaac Jardín; Alejandro Berna Erro; Juan Antonio Rosado; Pedro Cosme Redondo. "Libro de actas del congreso".

42 **Title of the work:** Regulation of TRPC channels by inmunophilins in human platelets
Name of the conference: International Workshop on Transient Receptor Potential (TRP) Channels
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 12/09/2012
End date: 14/09/2012
Organising entity: Cátedra Santiago Grisolía **Type of entity:** Foundation
City organizing entity: Valencia, Valencian Community, Spain
Type of contribution: Scientific paper
Esther López; Alejandro Berna Erro; Ginés María Salido; Juan Antonio Rosado; Pedro Cosme Redondo. Available on-line at: <http://www.fundacioncac.es/UserFiles/File/TRP2012%20List%20of%20posters%281%29.pdf>.

43 **Title of the work:** TRPC6 confers pH sensitivity to OAG-mediated aggregation in mouse platelets
Name of the conference: International Workshop on Transient Receptor Potential (TRP) Channels
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 12/09/2012
End date: 14/09/2012
Organising entity: Cátedra Santiago Grisolía **Type of entity:** Foundation
City organizing entity: Valencia, Valencian Community, Spain
Type of contribution: Scientific paper
Letizia Albarran; Alejandro Berna Erro; Natalia Dionisio; Pedro Cosme Redondo; Ginés María Salido; Juan Antonio Rosado. Available on-line at: <http://www.fundacioncac.es/UserFiles/File/TRP2012%20List%20of%20posters%281%29.pdf>.

44 **Title of the work:** Orai1 is not permeable to manganese in the presence of extracellular calcium
Name of the conference: Joint FEPS & Spanish Physiological Society Scientific Congress 2012
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 08/09/2012
End date: 12/09/2012
Organising entity: FEPS & Spanish Physiological Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
Natalia Dionisio; Isaac Jardin; Luis J Gómez; Ginés María Salido; Juan Antonio Rosado. Available on-line at: <http://www.feps2012.org/programme-poster.asp>.

45 **Title of the work:** TRPA1 plays a functional role in the megakaryoblastic cell line MEG01
Name of the conference: Joint FEPS & Spanish Physiological Society Scientific Congress 2012
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 08/09/2012
End date: 12/09/2012
Organising entity: FEPS & Spanish Physiological Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
Letizia Albarran; Carmen Galan; Jose Javier Lopez; Ginés María Salido; Juan Antonio Rosado. Available on-line at: <http://www.feps2012.org/programme-poster.asp>.

46 **Title of the work:** TRPC6 participates in the regulation of cytoplasmic calcium concentration in murine resting platelets
Name of the conference: Joint FEPS & Spanish Physiological Society Scientific Congress 2012
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 08/09/2012
End date: 12/09/2012
Organising entity: FEPS & Spanish Physiological Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper

Natalia Dionisio; Letizia Albarran; Alejandro Berna Erro; Pedro Cosme Redondo; Ginés María Salido; Juan Antonio Rosado. Available on-line at: <http://www.feps2012.org/programme-poster.asp>.

47 **Title of the work:** Urotensin-II signalling mechanisms of smooth muscle cell proliferation: role of Orai1, TRPC1 and STIM1
Name of the conference: Joint FEPS & Spanish Physiological Society Scientific Congress 2012
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 08/09/2012
End date: 12/09/2012
Organising entity: FEPS & Spanish Physiological Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
Maria Rodriguez Moyano; Ignacio Diaz; Natalia Dionisio; Juan Antonio Rosado; Antonio Ordoñez; Tarik Smani. Available on-line at: <http://www.feps2012.org/programme-poster.asp>.

48 **Title of the work:** El tratamiento prolongado con Rapamicina induce alteraciones morfológicas y funcionales en plaquetas de pacientes con trasplante renal
Name of the conference: II Congreso de la Sociedad Española de Trasplantes
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Madrid, Spain
Date of event: 23/06/2012
End date: 26/06/2012
Organising entity: Sociedad Española de Trasplantes
City organizing entity: Spain
Type of contribution: Scientific paper
Juan José Cubero Gomez; Esther López; Alejandro Berna Erro; R Alvarado; G García Pino; R Martinez R; Ginés María Salido; Juan Antonio Rosado; Pedro Cosme Redondo. Available on-line at: <http://www.setrasplante.org/SET2012/modules/scientificprogram/files/programa.pdf>.

49 **Title of the work:** El tratamiento prolongado con rapamicina induce alteraciones morfológicas y funcionales en plaquetas de pacientes con trasplante renal
Name of the conference: 2º Congreso de la Sociedad Española de Trasplantes
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Madrid, Community of Madrid, Spain
Date of event: 23/06/2012
End date: 26/06/2012
Organising entity: Sociedad Española de Trasplantes **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Type of contribution: Scientific paper
Juan Jose Cubero; Esther López; Alejandro Berna Erro; R Alvarado; G Garcia Pino; R Martinez; Gines Maria Salido Ruiz; Juan Antonio Rosado; Pedro Cosme Redondo. "Libro de actas del congreso". (Spain):

50 **Title of the work:** Bruton's tyrosine kinase participates in the regulation of STIM 1 by tyrosine phosphorylation during SOCE in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 11/07/2011
End date: 15/07/2011
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Reino Unido, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper
Esther Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "Bruton's tyrosine kinase participates in the regulation of STIM 1 by tyrosine phosphorylation during SOCE in human platelets". En: Proceedings of The Physiological Society. 23, pp. PC99 - PC99. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC99>. ISSN 1749-6187

51 **Title of the work:** Calcium mobilization by NAADP from acidic stores in the megakaryoblastic cell line MEG01
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 11/07/2011
End date: 15/07/2011
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Reino Unido, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper
Natalia Dionisio; Leticia Albarran; Jose Javier Lopez; Regis Bobe; Gines Maria Salido; Juan Antonio Rosado. "Calcium mobilization by NAADP from acidic stores in the megakaryoblastic cell line MEG01". En: Proceedings of The Physiological Society. 23, pp. PC113 - PC113. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC113>. ISSN 1749-6187

52 **Title of the work:** Functional involvement of the calmodulin/inositol 1,4,5-trisphosphate receptor-binding region of TRPC6 in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 11/07/2011
End date: 15/07/2011
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Reino Unido, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper
Natalia Dionisio; Leticia Albarran; Jose Javier Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado. "Functional involvement of the calmodulin/inositol 1,4,5-trisphosphate receptor-binding region of TRPC6 in human platelets". En: Proceedings of The Physiological Society. 23, pp.

PC323 - PC323. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC323>. ISSN 1749-6187

53 **Title of the work:** Homer1 has a role in store-operated calcium entry in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 11/07/2011
End date: 15/07/2011
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Reino Unido, Inner London, United Kingdom
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. "Homer1 has a role in store-operated calcium entry in human platelets". En: Proceedings of The Physiological Society. 23, pp. PC114 - PC114. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC114>. ISSN 1749-6187

54 **Title of the work:** Immunophilin proteins participate in platelet aggregation by regulating granule secretion and calcium homeostasis
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 11/07/2011
End date: 15/07/2011
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Reino Unido, Inner London, United Kingdom
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Alejandro Berna Erro; Esther Lopez; Juan Manuel Hernandez Cruz; Nuria Bermejo; Javier Garcia Casado; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "Immunophilin proteins participate in platelet aggregation by regulating granule secretion and calcium homeostasis". En: Proceedings of The Physiological Society. 23, pp. PC108 - PC108. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC108>. ISSN 1749-6187

55 **Title of the work:** Modulation of the dynamic interaction between STIM1, Orai1 and TRPC1 by the cytoskeleton in HEK-293 cells
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 11/07/2011
End date: 15/07/2011
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Reino Unido, Inner London, United Kingdom

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Natalia Dionisio; Carmen Galan; Gines Maria Salido; Juan Antonio Rosado. "Modulation of the dynamic interaction between STIM1, Orai1 and TRPC1 by the cytoskeleton in HEK-293 cells". En: Proceedings of The Physiological Society. 23, pp. PC92 - PC92. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC92>. ISSN 1749-6187

56 **Title of the work:** Thapsigargin and the diacylglycerol analogue 1-oleoyl-2-acetyl-sn-glycerol differentially regulate the association between Orai and STIM proteins in human platelets.

Name of the conference: Main Meeting of The Physiological Society

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance

City of event: Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom

Date of event: 11/07/2011

End date: 15/07/2011

Organising entity: The Physiological Society **Type of entity:** Associations and Groups

City organizing entity: Londres, Reino Unido, Inner London, United Kingdom

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Carmen Galan; Leticia Albarran; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado. "Thapsigargin and the diacylglycerol analogue 1-oleoyl-2-acetyl-sn-glycerol differentially regulate the association between Orai and STIM proteins in human platelets.". En: Proceedings of The Physiological Society. 23, pp. PC324 - PC324. Inner London (United Kingdom): IOP Publishing, 11/07/2011. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC324>. ISSN 1749-6187

57 **Title of the work:** Calcium sensing of the acidic stores in human platelets

Name of the conference: XI Congreso de la SBE

Type of event: Conference **Geographical area:** Non EU International

Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation

City of event: Murcia, Region of Murcia, Spain

Date of event: 01/06/2011

End date: 04/06/2011

Organising entity: sociedad biofisica de España **Type of entity:** Associations and Groups

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Juan Antonio Rosado. "Calcium sensing of the acidic stores in human platelets".

58 **Title of the work:** TRPCs regulate agonist-induced Ca2+ mobilization

Name of the conference: III Congreso de Red Española de Canales Iónicos

Type of event: Conference **Geographical area:** Non EU International

Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation

City of event: Tenerife, Canary Islands, Spain

Date of event: 02/02/2011

End date: 02/04/2011

Organising entity: Red Española de Canales Iónicos **Type of entity:** CIBER

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Gines Maria Salido; Geoffrey Woodard; Jose Javier Lopez; Isaac Jardin; Juan Antonio Rosado. "TRPCs regulate agonist-induced Ca2+ mobilization".

59 **Title of the work:** FK506-binding proteins regulate SOCE in human platelets by calcineurin-dependent and -independent pathways

Name of the conference: Main Meeting of The Physiological Society

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Durham, North Eastern Scotland, United Kingdom

Date of event: 15/12/2010

End date: 17/12/2010

Organising entity: The Physiological Society **Type of entity:** Associations and Groups

City organizing entity: Londres, Reino Unido, Inner London, United Kingdom

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Esther Lopez; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "FK506-binding proteins regulate SOCE in human platelets by calcineurin-dependent and -independent pathways". En: Proceedings of The Physiological Society. 21, pp. PC20 - PC20. Inner London (United Kingdom): IOP Publishing, 15/12/2010. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2021PC20>. ISSN 1749-6187

60 **Title of the work:** Phosphorylation of STIM1 in tyrosine residues is required during the activation of SOCE in human platelets

Name of the conference: Main Meeting of The Physiological Society

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Durham, North Eastern Scotland, United Kingdom

Date of event: 15/12/2010

End date: 17/12/2010

Organising entity: The Physiological Society **Type of entity:** Associations and Groups

City organizing entity: Londres, Reino Unido, Inner London, United Kingdom

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Esther Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "Phosphorylation of STIM1 in tyrosine residues is required during the activation of SOCE in human platelets". En: Proceedings of The Physiological Society. 21, pp. PC29 - PC29. Inner London (United Kingdom): IOP Publishing, 15/12/2010. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2021PC29>. ISSN 1749-6187

61 **Title of the work:** STIM1 is expressed in acidic Ca2+ stores in human platelets and associates with Orai1 and TRPC channels upon Ca2+ store depletion

Name of the conference: Main Meeting of The Physiological Society

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Durham, North Eastern Scotland, United Kingdom

Date of event: 15/12/2010

End date: 17/12/2010

Organising entity: The Physiological Society **Type of entity:** Associations and Groups

City organizing entity: Londres, Reino Unido, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Natalia Dionisio; Hanene Zbidi; Isaac Jardin; Gines Maria Salido; Pedro Cosme Redondo; Juan Antonio Rosado. "STIM1 is expressed in acidic Ca2+ stores in human platelets and associates with Orai1 and TRPC channels upon Ca2+ store depletion". En: Proceedings of The Physiological Society. 21, pp. PC26 - PC26. Inner London (United Kingdom): IOP Publishing, 15/12/2010. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2021PC26>. ISSN 1749-6187

62 **Title of the work:** TRPC channels: association with Orai and STIM and contribution to capacitative and non-capacitative Ca2+ entry
Name of the conference: TRP CHANNELS AND SENSORY BIOLOGY.
Type of event: Workshop
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Elche, Valencian Community, Spain
Date of event: 02/12/2010
End date: 03/12/2010
Organising entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City organizing entity: Elche, Valencian Community, Spain
Publication in conference proceedings: Yes
Juan Antonio Rosado. "TRPC channels: association with Orai and STIM and contribution to capacitative and non-capacitative Ca2+ entry".

63 **Title of the work:** Effect of an experimental treatment with cinnamtannin B-1 on hepatitis C virus replication in an in vitro model
Name of the conference: International Symposium on the Pathophysiology of Reactive Oxygen and Nitrogen Species
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Salamanca, Castile and León, Spain
Date of event: 19/05/2010
End date: 21/05/2010
Organising entity: FUNDACION GENERAL DE LA UNIVERSIDAD DE SALAMANCA
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Maria Victoria Garcia Mediavilla; Lima; Mauriz; Culebras; Juan Antonio Rosado; Majano; Gines Maria Salido; Javier Gonzalez Gallego; Sonia Sanchez Campos. "Effect of an experimental treatment with cinnamtannin B-1 on hepatitis C virus replication in an in vitro model".

64 **Title of the work:** Agonist-induced Ca2+ mobilization is regulated by a complex involving Orai1, hTRPC3 and the type I inositol 1,4,5-trisphosphate receptor
Name of the conference: Experimental Biology 2010
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Anaheim, United States of America
Date of event: 24/04/2010
End date: 28/04/2010
Organising entity: Federation of American Societies for Experimental Biology **Type of entity:** Associations and Groups
City organizing entity: United States of America

With external admission assessment committee: Yes
Type of contribution: Scientific paper
Isaac Jardin; GEOFFREY WOODARD; Jose Javier Lopez; Gines Maria Salido; Juan Antonio Rosado. "Agonist-induced Ca2+ mobilization is regulated by a complex involving Orai1, hTRPC3 and the type I inositol 1,4,5-trisphosphate receptor". En: FASEB Journal. 24, pp. 869.2 - 869.2. (United States of America): 24/04/2010. Available on-line at: <http://www.fasebj.org/cgi/content/meeting_abstract/24/1_MeetingAbstracts/869.2?sid=f64664f5-1241-4124-ba90-d9afda29b73c>. ISSN 0892-6638

65 **Title of the work:** Lipid rafts determine association of Orai1, STIM1 and the TRPC1 and TRPC6 proteins
Name of the conference: Experimental Biology 2010
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Anaheim, United States of America
Date of event: 24/04/2010
End date: 28/04/2010
Organising entity: Federation of American Societies for Experimental Biology
Type of entity: Associations and Groups
City organizing entity: United States of America
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Carmen Galan; Gines Maria Salido; Juan Antonio Rosado. "Lipid rafts determine association of Orai1, STIM1 and the TRPC1 and TRPC6 proteins". En: FASEB Journal. 24, pp. 481.2 - 481.2. (United States of America): 24/04/2010. Available on-line at: <http://www.fasebj.org/cgi/content/meeting_abstract/24/1_MeetingAbstracts/481.2?sid=e39de8f9-670e-4424-8036-70aead9b1fa0>. ISSN 0892-6638

66 **Title of the work:** Complejos ternarios TRPC-ORAI1-STIM1 en la entrada capacitativa de calcio (TRPC-STIM1-Orai1 ternary complex in capacitative calcium entry
Name of the conference: 16th Symposium on Ca2+-binding proteins and Ca2+ function in health and disease, XXIII Congreso de la Sociedad Latinoamericana de Ciencias Fisiológicas y II Congreso Iberoamericano de Ciencias Fisiológicas.
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk
Reasons for participation: Upon invitation
City of event: Pucon, Chile
Date of event: 16/11/2009
End date: 20/11/2009
Organising entity: Sociedad Latinoamericana de Ciencias Fisiológicas
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Gines Maria Salido; Juan Antonio Rosado. "Complejos ternarios TRPC-ORAI1-STIM1 en la entrada capacitativa de calcio (TRPC-STIM1-Orai1 ternary complex in capacitative calcium entry". En: BIOLOGICAL RESEARCH. (Chile): Sociedad de Biología de Chile, 16/11/2009. Available on-line at: <http://www.cienciasfisiologicas.cl/resumenes2009.pdf>. ISSN 0717-6287

67 **Title of the work:** Asociación functional TRPC-ORAI-STIM en la entrada capacitativa de calcio
Name of the conference: II Congreso de Red Española de Canales Iónicos
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Upon invitation
City of event: Valladolid, Castile and León, Spain
Date of event: 15/10/2009
End date: 16/10/2009

Organising entity: Red Española de Canales Iónicos **Type of entity:** CIBER
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Juan Antonio Rosado; Gines Maria Salido. "Asociación functional TRPC-ORAI-STIM en la entrada capacitativa de calcio".

68 **Title of the work:** The intracelular Ca2+ store of HEK293 cells is not a homogeneous compartment
Name of the conference: II Congreso de Red Española de Canales Iónicos
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Upon invitation
City of event: Valladolid, Castile and León, Spain
Date of event: 15/10/2009
End date: 16/10/2009
Organising entity: Red Española de Canales Iónicos **Type of entity:** CIBER
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Francisco Aulestia; Rodriguez Garcia; Gines Maria Salido; Juan Antonio Rosado; Maria Teresa Alonso; Javier Garcia Sancho. "The intracelular Ca2+ store of HEK293 cells is not a homogeneous compartment".

69 **Title of the work:** Efecto del antioxidante quercetina en las alteraciones en la homeostasis del calcio intracellular inducida por las proteínas CORE y NS5A del virus de la hepatitis C
Name of the conference: I Jornadas Veterinarias de Estudiantes.
Type of event: Workshop
Type of participation: Participatory - oral communication
City of event: Cáceres, Extremadura, Spain
Date of event: 26/03/2009
End date: 28/03/2009
Organising entity: Facultad de Veterinaria **Type of entity:** University Centres and Structures and Associated Bodies
City organizing entity: Cáceres, Extremadura, Spain
With external admission assessment committee: No

Natalia Dionisio; Maria Victoria Garcia Mediavilla; Gines Maria Salido; Juan Antonio Rosado. "Efecto del antioxidante quercetina en las alteraciones en la homeostasis del calcio intracellular inducida por las proteínas CORE y NS5A del virus de la hepatitis C".

70 **Title of the work:** Señalización del calcio en hepatocitos humanos transfectados con las proteínas NS5A y Core del virus de la hepatitis C
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Madrid, Community of Madrid, Spain
Date of event: 25/02/2009
End date: 27/02/2009
Organising entity: XXXIV Congreso Anual de la Asociación Española para el Estudio del Hígado **Type of entity:** Associations and Groups
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper

Maria Victoria Garcia Mediavilla; Sonia Sanchez Campos; Natalia Dionisio; Carmen Galan; Juan Antonio Rosado; Javier Gonzalez Gallego. "Señalización del calcio en hepatocitos humanos transfectados con las proteínas NS5A y Core del virus de la hepatitis C". En: Gastroenterología y Hepatología. 34, pp. 29 - 54. (Spain): Elservier, 25/02/2009. Available on-line at: <http://www.elsevier.es/es/revistas/gastroenterologia-hepatologia-14/volumen-34/numero-espcongreso2>.

71 **Title of the work:** CALCIUM ACCUMULATION IN THE ACIDIC STORES IS IMPORTANT FOR THROMBIN-INDUCED PLATELET AGGREGATION
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 17/02/2009
End date: 20/02/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Gines Maria Salido; Nidhal Ben Amor; Hanene Zbidi; Aicha Bouaziz; Isaac Jardin; Juan Manuel Hernandez Cruz; Aghleb Bartegi; Juan Antonio Rosado. "CALCIUM ACCUMULATION IN THE ACIDIC STORES IS IMPORTANT FOR THROMBIN-INDUCED PLATELET AGGREGATION". En: Acta Physiologica. 195 - 667, pp. P115 - P115. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73160, 17/02/2009. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

72 **Title of the work:** APOPTOSIS TRIGGERED BY ENDOPLASMATIC RETICULUM STRESS IS ASSOCIATED TO CASPASES 3, 8 AND 9 ACTIVATION IN HUMAN PLATELETS
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 17/02/2009
End date: 20/02/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Jose Javier Lopez; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "APOPTOSIS TRIGGERED BY ENDOPLASMATIC RETICULUM STRESS IS ASSOCIATED TO CASPASES 3, 8 AND 9 ACTIVATION IN HUMAN PLATELETS". En: Acta Physiologica. 195 - 667, pp. P118 - P118. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73163, 17/02/2009. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

73 **Title of the work:** CALCIUM SIGNALLING IN HUMAN HEPATOCYTES TRANSFECTED WITH HEPATITIS C VIRUS NS5A AND CORE PROTEINS. EFFECT OF THE ANTIOXIDANT QUERCETIN
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 17/02/2009
End date: 20/02/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Maria Victoria Garcia Mediavilla; Sonia Sanchez Campos; Natalia Dionisio; Carmen Galan; Gines Maria Salido; Juan Antonio Rosado; Javier Gonzalez Gallego. "CALCIUM SIGNALLING IN HUMAN HEPATOCYTES TRANSFECTED WITH HEPATITIS C VIRUS NS5A AND CORE

PROTEINS. EFFECT OF THE ANTIOXIDANT QUERCETIN". En: Acta Physiologica. 195 - 667, pp. P105 - P105. (United States of America): John Wiley & Sons, 17/02/2009. Available on-line at: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73150>. ISSN 1748-1716

74 **Title of the work:** INVOLVEMENT OF HTRPC6 IN CAPACITATIVE AND NON-CAPACITATIVE CALCIUM ENTRY PATHWAYS
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 17/02/2009
End date: 20/02/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Isaac Jardin; Luis Gomez; Gines Maria Salido; Juan Antonio Rosado. "INVOLVEMENT OF HTRPC6 IN CAPACITATIVE AND NON-CAPACITATIVE CALCIUM ENTRY PATHWAYS". En: Acta Physiologica. 195 - 667, pp. P116 - P116. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73161, 17/02/2009. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

75 **Title of the work:** RELEVANCE OF LIPID RAFTS IN STORE-OPERATED CALCIUM ENTRY
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 17/02/2009
End date: 20/02/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. "RELEVANCE OF LIPID RAFTS IN STORE-OPERATED CALCIUM ENTRY". En: Acta Physiologica. 195 - 667, pp. P117 - P117. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73162, 17/02/2009. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

76 **Title of the work:** ROLE OF CYCLOPHILIN IN INTRACELLULAR CALCIUM HOMEOSTASIS: THE ACTOR BEHIND THE SCENES
Name of the conference: XXXV Congress of the Spanish society for physiological sciences
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Valencia, Valencian Community, Spain
Date of event: 17/02/2009
End date: 20/02/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Juan Antonio Rosado; Jose Antonio Pariente; Gines Maria Salido; Pedro Cosme Redondo. "ROLE OF CYCLOPHILIN IN INTRACELLULAR CALCIUM HOMEOSTASIS: THE ACTOR BEHIND

THE SCENES". En: Acta Physiologica. 195 - 667, pp. P119 - P119. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73164, 17/02/2009. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

77 **Title of the work:** Efecto antiagregante plaquetario de polifenoles aislados de madera de olivo en sujetos afectados de diabetes mellitus tipo 2
Name of the conference: II Congreso Internacional sobre Aceite de Oliva y Salud.
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Cordoba y Jaén, Andalusia, Spain
Date of event: 20/11/2008
End date: 22/11/2008
Organising entity: Junta de Andalucía
Type of entity: organismo público
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Hanene Zbidi; Joaquin Altarejos; Mercedes Perez Bonilla; Sofia Salido; Juan Antonio Rosado; Gines Maria Salido. "Efecto antiagregante plaquetario de polifenoles aislados de madera de olivo en sujetos afectados de diabetes mellitus tipo 2".

78 **Title of the work:** Acidic Ca2+ store refilling by SERCA3 is regulated by STIM1 in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Cambridge, Bedfordshire and Hertfordshire, United Kingdom
Date of event: 14/07/2008
End date: 17/07/2008
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Isaac Jardin; Jose Javier Lopez; Regis Bobe; Jose Antonio Pariente; Jocelyne Enouf; Gines Maria Salido; Juan Antonio Rosado. "Acidic Ca2+ store refilling by SERCA3 is regulated by STIM1 in human platelets". En: J Physiol. 11, pp. PC130 - PC130. Inner London (United Kingdom): IOP Publishing, 14/07/2008. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC130>. ISSN 1749-6187

79 **Title of the work:** Activation and translocation of Bid and Bax to the mitochondria in response to thrombin in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Cambridge, Bedfordshire and Hertfordshire, United Kingdom
Date of event: 14/07/2008
End date: 17/07/2008
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Jose Javier Lopez; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Activation and translocation of Bid and Bax to the mitochondria in response to thrombin in human platelets". En: J Physiol.

11, pp. PC131 - PC131. Inner London (United Kingdom): IOP Publishing, 14/07/2008. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC131>. ISSN 1749-6187

80 **Title of the work:** Oleuropein and cycloolivil from olive tree wood exert antiaggregant effects in platelets from patients with type 2 diabetes mellitus
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Cambridge, Bedfordshire and Hertfordshire, United Kingdom
Date of event: 14/07/2008
End date: 17/07/2008
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Gines Maria Salido; Hanene Zbidi; Sofia Salido; Joaquin Altarejos; Aghleb Bartegi; Juan Antonio Rosado. "Oleuropein and cycloolivil from olive tree wood exert antiaggregant effects in platelets from patients with type 2 diabetes mellitus". En: J Physiol. 11, pp. PC129 - PC129. Inner London (United Kingdom): IOP Publishing, 14/07/2008. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC129>. ISSN 1749-6187

81 **Title of the work:** Role of immunophilin family of protein in calcium homeostasis in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Cambridge, Bedfordshire and Hertfordshire, United Kingdom
Date of event: 14/07/2008
End date: 17/07/2008
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Pedro Cosme Redondo; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "Role of immunophilin family of protein in calcium homeostasis in human platelets". En: J Physiol. 11, pp. PC138 - PC138. Inner London (United Kingdom): IOP Publishing, 14/07/2008. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC138>. ISSN 1749-6187

82 **Title of the work:** SNAP-25-dependent exocytosis regulates plasma membrane insertion of Orai1 and contributes to store-operated Ca2+ influx
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Cambridge, Bedfordshire and Hertfordshire, United Kingdom
Date of event: 14/07/2008
End date: 17/07/2008
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper

Juan Antonio Rosado; Geoffrey Woodard; Gines Maria Salido. "SNAP-25-dependent exocytosis regulates plasma membrane insertion of Orai1 and contributes to store-operated Ca2+ influx". En: J Physiol. 11, pp. PC128 - PC128. Inner London (United Kingdom): IOP Publishing, 14/07/2008. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC128>. ISSN 1749-6187

83 **Title of the work:** A role for SNAP-25 in thrombin-induced platelet aggregation
Name of the conference: XXII congress of International Society on Thrombosis and Haemotasis
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Geneva, Switzerland
Date of event: 06/07/2007
End date: 12/07/2007
Organising entity: International Society on Thrombosis and Haemotasis
Type of entity: Associations and Groups
City organizing entity: Carrboro, United States of America
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Isaac Jardin; Pedro Cosme Redondo; Gines Maria Salido; Juan Antonio Rosado. "A role for SNAP-25 in thrombin-induced platelet aggregation". 5 - S2, pp. P-S-490 - P-S-490. (United States of America): WILEY-BLACKWELL, 06/07/2007. Available on-line at: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

84 **Title of the work:** Reactive oxygen species generation is required for thrombin-induced platelet apoptosis
Name of the conference: XXII congress of International Society on Thrombosis and Haemotasis
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Geneva, Switzerland
Date of event: 06/07/2007
End date: 12/07/2007
Organising entity: International Society on Thrombosis and Haemotasis
Type of entity: Associations and Groups
City organizing entity: Carrboro, United States of America
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Jose Javier Lopez; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Reactive oxygen species generation is required for thrombin-induced platelet apoptosis". 5 - S2, pp. PW294 - PW294. (United States of America): WILEY-BLACKWELL, 06/07/2007. Available on-line at: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

85 **Title of the work:** Relevance of Ca2+ entry to platelet aggregation by activation of thrombin receptors
Name of the conference: XXII congress of International Society on Thrombosis and Haemotasis
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Geneva, Switzerland
Date of event: 06/07/2007
End date: 12/07/2007
Organising entity: International Society on Thrombosis and Haemotasis
Type of entity: Associations and Groups
City organizing entity: Carrboro, United States of America
Publication in conference proceedings: Yes
With external admission assessment committee: Yes

Type of contribution: Scientific paper

Isaac Jardin; Pedro Cosme Redondo; Nidhal Ben Amor; Aghleb Bartegi; Gines Maria Salido; Juan Antonio Rosado. "Relevance of Ca2+ entry to platelet aggregation by activation of thrombin receptors". 5 - S2, pp. P-M-066 - P-M-066. (United States of America): WILEY-BLACKWELL, 06/07/2007. Available on-line at: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

86 **Title of the work:** Role of tubulin-microtubules in store-operated calcium entry in human platelets

Name of the conference: XXII congress of International Society on Thrombosis and Haemotasis

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Open access

City of event: Geneva, Switzerland

Date of event: 06/07/2007

End date: 12/07/2007

Organising entity: International Society on Thrombosis and Haemotasis

Type of entity: Associations and Groups

City organizing entity: Carrboro, United States of America

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Pedro Cosme Redondo; Stewart Sage; Juan Antonio Rosado. "Role of tubulin-microtubules in store-operated calcium entry in human platelets". 5 - S2, pp. P-S-491 - P-S-491. (United States of America): WILEY-BLACKWELL, 06/07/2007. Available on-line at: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

87 **Title of the work:** A DUAL ROLE OF TUBULIN-MICROTUBULES IN STORE-OPERATED CALCIUM ENTRY IN HUMAN PLATELETS IS EXPLAINED BY THEIR CONTRIBUTION TO DIFFERENT ACTIVATION PATHWAYS

Name of the conference: XXXIV Congress of the Spanish society for physiological sciences

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Open access

City of event: Valladolid, Castile and León, Spain

Date of event: 03/07/2007

End date: 07/07/2007

Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Pedro Cosme Redondo; Stewart Sage; Juan Antonio Rosado. "A DUAL ROLE OF TUBULIN-MICROTUBULES IN STORE-OPERATED CALCIUM ENTRY IN HUMAN PLATELETS IS EXPLAINED BY THEIR CONTRIBUTION TO DIFFERENT ACTIVATION PATHWAYS". En: Acta Physiologica. 190 - 655, pp. O20 - O20. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=734&id=59804, 03/07/2007. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

88 **Title of the work:** Bid and Bax proteins participate in thrombin-induced human platelet apoptosis

Name of the conference: XXXIV Congress of the Spanish society for physiological sciences

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Open access

City of event: Valladolid, Castile and León, Spain

Date of event: 03/07/2007

End date: 07/07/2007

Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Jose Javier Lopez; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Bid and Bax proteins participate in thrombin-induced human platelet apoptosis". En: Acta Physiologica. 190 - 655, pp. P12 - P12. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=734&id=59944, 03/07/2007. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

89 **Title of the work:** MECHANISMS OF STORE-OPERATED CALCIUM ENTRY

Name of the conference: XXXIV Congress of the Spanish society for physiological sciences

Type of event: Conference **Geographical area:** Non EU International

Type of participation: Participatory - oral communication **Reasons for participation:** Open access

City of event: Valladolid, Castile and León, Spain

Date of event: 03/07/2007

End date: 07/07/2007

Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Juan Antonio Rosado. "MECHANISMS OF STORE-OPERATED CALCIUM ENTRY". En: Acta Physiologica. 190 - 655, pp. S30 - S30. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=734&id=59755, 03/07/2007. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

90 **Title of the work:** STORE OPERATED CALCIUM ENTRY THROUGH THE HTRPC6 CHANNEL IS MODULATED BY PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE IN HUMAN PLATELETS

Name of the conference: XXXIV Congress of the Spanish society for physiological sciences

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Valladolid, Castile and León, Spain

Date of event: 03/07/2007

End date: 07/07/2007

Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Isaac Jardin; Pedro Cosme Redondo; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "STORE OPERATED CALCIUM ENTRY THROUGH THE HTRPC6 CHANNEL IS MODULATED BY PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE IN HUMAN PLATELETS". En: Acta Physiologica. 190 - 655, pp. P05 - P05. (United States of America): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=734&id=59937, 03/07/2007. Available on-line at: <John Wiley & Sons>. ISSN 1748-1716

91 **Title of the work:** Human platelets aggregation: role of microtubular network and tyrosine phosphorylation/dephosphorylation balance

Name of the conference: XXIIémes Entretiens Medico-Chirurgicaux de l´Amicale des Enseignants de la Faculté de Médecine de Monastir.

Type of event: Workshop **Geographical area:** Non EU International

Type of participation: Participatory - oral communication **Reasons for participation:** Open access

City of event: Monastir, Tunisia

Date of event: 08/06/2007
End date: 09/06/2007
Organising entity: Amicale des Enseignants de la Faculté de Médecine de Monastir
Type of entity: Associations and Groups
City organizing entity: Monastir, Tunisia
Publication in conference proceedings: No
With external admission assessment committee: Yes

Hanene Zbidi; Aicha Bouaziz; Nidhal Ben Amor; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "CALCIUM ACCUMULATION IN THE ACIDIC STORES IS IMPORTANT FOR THROMBIN-INDUCED PLATELET AGGREGATION".

92 **Title of the work:** Proanthocyanidin from bay wood reduces abnormal intracellular Ca2+ homeostasis and platelet hyperaggregability in type 2 diabetes
Name of the conference: 18émes Journees Biologiques de L´Association Tunisienne des Sciences Biologiques (ATSB) et 2éme Congres International Association Maghrébine de Biotechnologie (AMB).
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Tunez, Tunisia
Date of event: 25/03/2007
End date: 28/03/2007
Organising entity: Association Maghrébine de Biotechnologie
Publication in conference proceedings: No
With external admission assessment committee: Yes

Aicha Bouaziz; Hanene Zbidi; Nidhal Ben Amor; Sofia Salido; Sanchez; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Proanthocyanidin from bay wood reduces abnormal intracellular Ca2+ homeostasis and platelet hyperaggregability in type 2 diabetes".

93 **Title of the work:** Tyrosine phosphorylation/dephosphorylation balance is involved in thrombin-evoked microtubular reorganisation in human platelets
Name of the conference: 18émes Journees Biologiques de L´Association Tunisienne des Sciences Biologiques (ATSB) et 2éme Congres International Association Maghrébine de Biotechnologie (AMB).
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Tunez, Tunisia
Date of event: 25/03/2007
End date: 28/03/2007
Organising entity: Association Maghrébine de Biotechnologie
Publication in conference proceedings: No
With external admission assessment committee: Yes

Hanene Zbidi; Aicha Bouaziz; Nidhal Ben Amor; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Tyrosine phosphorylation/dephosphorylation balance is involved in thrombin-evoked microtubular reorganisation in human platelets".

94 **Title of the work:** Antiaggregant effect of flavonoids from Arbutus unedo are mediated by their antioxidant activity and inhibition of Ca2+ mobilization and tyrosine phosphorylation
Name of the conference: Congrès International sur les Plantes Médicinales et Aromatiques (CIPMA 2007).
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Fes, Morocco
Date of event: 22/03/2007
End date: 24/03/2007

Organising entity: Université Sidi Mohamed Ben Abdellah
Type of entity: University
City organizing entity: Fes, Morocco
Publication in conference proceedings: No
With external admission assessment committee: Yes

Mohammed El Haouari; Jose Javier Lopez; Aziz; Bnouham; Ziyyat; Legssyer; Juan Antonio Rosado; Gines Maria Salido; Mekhfi. "Antiaggregant effect of flavonoids from Arbutus unedo are mediated by their antioxidant activity and inhibition of Ca2+ mobilization and tyrosine phosphorylation". 22/03/2007.

95 **Title of the work:** Urtica dioica extracts reduces platelet hyperaggregability in type 2 diabetes mellitus by inhibition of oxidant production, Ca2+ mobilization and protein tyrosine phosphorylation
Name of the conference: Congrès International sur les Plantes Médicinales et Aromatiques (CIPMA 2007).
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Fes, Morocco
Date of event: 22/03/2007
End date: 24/03/2007
Organising entity: Université Sidi Mohamed Ben Abdellah
Type of entity: University
City organizing entity: Fes, Morocco
Publication in conference proceedings: No
With external admission assessment committee: Yes

Mohammed El Haouari; Isaac Jardin; Aziz; Bnouham; Ziyyat; Legssyer; Juan Antonio Rosado; Gines Maria Salido; Mekhfi. "Urtica dioica extracts reduces platelet hyperaggregability in type 2 diabetes mellitus by inhibition of oxidant production, Ca2+ mobilization and protein tyrosine phosphorylation". 22/03/2007.

96 **Title of the work:** Action anti-apoptotique de la cinnamtanine B-1 extraite de Laurier sur les plaquettes humaines
Name of the conference: 4éme Symposium International de Monastir (Túnez) Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer.
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Monastir, Tunisia
Date of event: 21/03/2007
End date: 24/03/2007
Organising entity: Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer.
Type of entity: Associations and Groups
Publication in conference proceedings: No
With external admission assessment committee: Yes

Aicha Bouaziz; Nidhal Ben Amor; Sofia Salido; Sanchez; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Action anti-apoptotique de la cinnamtanine B-1 extraite de Laurier sur les plaquettes humaines".

97 **Title of the work:** Activation des caspases 3 et 9 par la thrombine dans les plaquettes et leur translocation vers le cytosquelette des microfilaments d´actine
Name of the conference: 4éme Symposium International de Monastir (Túnez) Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer.
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Monastir, Tunisia
Date of event: 21/03/2007

End date: 24/03/2007
Organising entity: Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer.
Type of entity: Associations and Groups
Publication in conference proceedings: No
With external admission assessment committee: Yes

Nidhal Ben Amor; Aicha Bouaziz; Hanene Zbidi; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Activation des caspases 3 et 9 par la thrombine dans les plaquettes et leur translocation vers le cytosquelette des microfilaments d´actine".

98 **Title of the work:** TRPC1, 4 and 5 channels are not tyrosine phosphorylated during human platelet activation
Name of the conference: 8th UK Platelet Meeting.
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 07/09/2006
End date: 08/09/2006
Organising entity: The UK platelet group
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes
With external admission assessment committee: Yes

Pedro Cosme Redondo; Juan Antonio Rosado; Matthew Harper; Alan Harper; Stewart Sage. "TRPC1, 4 and 5 channels are not tyrosine phosphorylated during human platelet activation".

99 **Title of the work:** Association of stromal interaction molecule 1 (STIM1) with human transient receptor potential channel 1 (hTRPC1) regulated by the filling state of the Ca2+ stores in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Londres, Inner London, United Kingdom
Date of event: 05/07/2006
End date: 07/07/2006
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes
With external admission assessment committee: Yes

Type of contribution: Scientific paper

Jose Javier Lopez; Pedro Cosme Redondo; Juan Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "Association of stromal interaction molecule 1 (STIM1) with human transient receptor potential channel 1 (hTRPC1) regulated by the filling state of the Ca2+ stores in human platelets". En: Proceedings of The Physiological Society. 3, pp. PC23 - PC23. Inner London (United Kingdom): IOP Publishing, 05/07/2006. Available on-line at: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%203PC23>. ISSN 1749-6187

100 **Title of the work:** Functional characteristics of two types of calcium stores and SERCAs in human platelets
Name of the conference: European Platelet Group Congress
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Lodz, Lodzkie, Poland
Date of event: 28/06/2006
End date: 30/06/2006

Organising entity: European Platelet Group **Type of entity:** Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Alfonsas Juska; Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. "Functional characteristics of two types of calcium stores and SERCAs in human platelets".

101 **Title of the work:** 5,6-Epoxyeicosatrienoic acid is involved in Ca2+ entry by de novo conformational coupling in human Platelets
Name of the conference: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: München, Oberbayern, Germany
Date of event: 26/03/2006
End date: 29/03/2006
Organising entity: The Federation of European Physiological Societies **Type of entity:** Associations and Groups
City organizing entity: Desconocido,
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Jose Javier Lopez; Nidhal Ben Amor; Pedro Cosme Redondo; Aghleb Bartegi; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "5,6-Epoxyeicosatrienoic acid is involved in Ca2+ entry by de novo conformational coupling in human Platelets". En: Acta Physiologica. 186 - 650, pp. PT03A-5 - PT03A-5. (United States of America): John Wiley & Sons, 26/03/2006. Available on-line at: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60521>. ISSN 1748-1716

102 **Title of the work:** A role for PKC in the translocation of caspases 3 and 9 to the cytoskeleton
Name of the conference: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: München, Oberbayern, Germany
Date of event: 26/03/2006
End date: 29/03/2006
Organising entity: The Federation of European Physiological Societies **Type of entity:** Associations and Groups
City organizing entity: Desconocido,
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Jose Javier Lopez; Nidhal Ben Amor; Jose Antonio Pariente; Gines Maria Salido; Aghleb Bartegi; Juan Antonio Rosado. "A role for PKC in the translocation of caspases 3 and 9 to the cytoskeleton". En: Acta Physiologica. 186 - 650, pp. PT04A-1 - PT04A-1. (United States of America): John Wiley & Sons, 26/03/2006. Available on-line at: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60534>. ISSN 1748-1716

103 **Title of the work:** Non-apoptotic caspase-3 activation is necessary for cellular function
Name of the conference: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)

Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: München, Oberbayern, Germany
Date of event: 26/03/2006
End date: 29/03/2006
Organising entity: The Federation of European Physiological Societies
Type of entity: Associations and Groups
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper

Jose Javier Lopez; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Non-apoptotic caspase-3 activation is necessary for cellular function". En: Acta Physiologica. 186 - 650, pp. PT04P-2 - PT04P-2. (United States of America): John Wiley & Sons, 26/03/2006. Available on-line at: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60544>. ISSN 1748-1716

104 **Title of the work:** Platelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species
Name of the conference: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: München, Oberbayern, Germany
Date of event: 26/03/2006
End date: 29/03/2006
Organising entity: The Federation of European Physiological Societies
Type of entity: Associations and Groups
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper

Jose Javier Lopez; Isaac Jardin; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Platelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species". En: Acta Physiologica. 186 - 650, pp. PW10P-4 - PW10P-4. (United States of America): John Wiley & Sons, 26/03/2006. Available on-line at: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60810>. ISSN 1748-1716

105 **Title of the work:** Caspases 3 and 9 are translocated to the cytoskeleton and activated by thrombin in human platelets. Evidences for the involvement of PKC and the actin polymerisation
Name of the conference: Association Tunisienne des Sciences Biologiques
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Hammamet, Tunisia
Date of event: 20/03/2006
End date: 23/03/2006
Organising entity: Association Tunisienne des Sciences Biologiques
Publication in conference proceedings: No
With external admission assessment committee: Yes

Nidhal Ben Amor; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado; Barbouche; Aghleb Bartegi. "Caspases 3 and 9 are translocated to the cytoskeleton and activated by thrombin in human platelets. Evidences for the involvement of PKC and the actin polymerisation".

106 **Title of the work:** Increased intracellular calcium mobilisation in platelets from patients with diabetes mellitus type 2
Name of the conference: 83rd Joint Meeting of The German Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Leipzig, Germany
Date of event: 22/03/2005
End date: 24/03/2005
Organising entity: The German Physiological Society
City organizing entity: Desconocido, Germany
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Fernando Raul Saavedra; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Increased intracellular calcium mobilisation in platelets from patients with diabetes mellitus type 2". En: European Journal of Physiology. 447 - 1S, pp. S104 - S104. (Germany): Springer-Verlag GmbH, Heidelberg, 10/02/2005. Available on-line at: <http://download.springer.com/static/pdf/286/art%253A10.1007%252Fs00424-004-1272-7.pdf?auth66=1351687044_23a3e981711a8513903f4b865296f77a&ext=.pdf>. ISSN 1432-2013

107 **Title of the work:** SNARE proteins are involved in the activation of store-mediated calcium entry
Name of the conference: 83rd Joint Meeting of The German Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
City of event: Leipzig, Germany
Date of event: 22/03/2005
End date: 24/03/2005
Organising entity: The German Physiological Society
City organizing entity: Desconocido, Germany
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Pedro Cosme Redondo; Alan Harper; Matthew Harper; Gines Maria Salido; Jose Antonio Rosado; Stewart Sage; Juan Antonio Rosado. "SNARE proteins are involved in the activation of store-mediated calcium entry". En: European Journal of Physiology. 447 - 1S, pp. S126 - S126. (Germany): Springer-Verlag GmbH, Heidelberg, 10/02/2005. Available on-line at: <http://download.springer.com/static/pdf/246/art%253A10.1007%252Fs00424-004-1273-6.pdf?auth66=1351687653_0782d8b97ddcf72900ed4a0f68f7514e&ext=.pdf>. ISSN 1432-2013

108 **Title of the work:** Activation of Bruton´s tyrosine kinase is required for store-operated Ca2+ entry in human platelets
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005

End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Juan Antonio Rosado; Nidhal Ben Amor; Pedro Cosme Redondo; Aghleb Bartegi; Gines Maria Salido; Jose Antonio Pariente. "Activation of Bruton´s tyrosine kinase is required for store-operated Ca2+ entry in human platelets". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 76 - 76. (Holland): Springer Netherlands, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

109 **Title of the work:** Agonists regulate Ca2+ signalling by different second messengers in human platelets
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Juan Antonio Rosado; Jose Javier Lopez; Pedro Cosme Redondo; Emilio Gomez Arteta; Jose Antonio Rosado; Gines Maria Salido. "Agonists regulate Ca2+ signalling by different second messengers in human platelets and elevated stored-operated calcium entry in platelet from patients with diabetes mellitus type 2". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 251 - 251. (Holland): Springer Netherlands,, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

110 **Title of the work:** Calcium mobilisation and tyrosine kinase pp60src hyperactivity are modulated by hyperglycemia in platelets from Diabetes Mellitus type-2 patients
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Fernando Raul Saavedra; Pedro Cosme Redondo; Juan Manuel Hernandez Cruz; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Calcium mobilisation and tyrosine kinase pp60src hyperactivity are modulated by hyperglycemia in platelets from Diabetes Mellitus type-2 patients". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 266 - 266. (Holland): Springer Netherlands,, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

111 **Title of the work:** Cofilin is involved in actin cytoskeleton reorganisation during SOCE activation
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference
Geographical area: Non EU International

Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Pedro Cosme Redondo; Matthew Harper; Juan Antonio Rosado; Stewart Sage. "Cofilin is involved in actin cytoskeleton reorganisation during SOCE activation". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 259 - 260. (Holland): Springer Netherlands, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

112 **Title of the work:** Differential Ca2+release by physiological agonist from separate compartments in human plateletstelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Jose Javier Lopez; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Differential Ca2+release by physiological agonist from separate compartments in human plateletstelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 257 - 257. (Holland): Springer Netherlands,, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

113 **Title of the work:** Dynamics of SERCA and PMCA activities depend on the initial rate of calcium influx from the stores in human platelets
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Alfonsas Juska; Pedro Cosme Redondo; Gines Maria Salido; Juan Antonio Rosado. "Dynamics of SERCA and PMCA activities depend on the initial rate of calcium influx from the stores in human platelets". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 251 - 252. (Holland): Springer Netherlands, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

114 **Title of the work:** Effects of hydrogen peroxide on secretagogue-evoked amylase release from mouse pancreatic acinar cells
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Ana Isabel Lajas; Silvia Figuero; Juan Antonio Rosado; Gines Maria Salido; Jose Antonio Rosado. "Effects of hydrogen peroxide on secretagogue-evoked amylase release from mouse pancreatic acinar cells". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 267 - 267. (Holland): Springer Netherlands, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

115 **Title of the work:** Reactive oxygen species are responsible for the high cytosolic calcium concentration and elevated stored-operated calcium entry in platelet from patients with diabetes mellitus type 2
Name of the conference: XXXIII Meeting of The Spanish society of Physiological Sciences.
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Sevilla, Andalusia, Spain
Date of event: 10/02/2005
End date: 13/02/2005
Organising entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City organizing entity: Desconocido,
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Isaac Jardin; Pedro Cosme Redondo; Jose Javier Lopez; Juan Manuel Hernandez Cruz; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Reactive oxygen species are responsible for the high cytosolic calcium concentration and elevated stored-operated calcium entry in platelet from patients with diabetes mellitus type 2". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 256 - 256. (Holland): Springer Netherlands,, 10/02/2005. Available on-line at: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

116 **Title of the work:** SUB-SECOND CHANGES IN F-ACTIN LEVELS COMPATIBLE WITH ACTIVATION OF STORE-OPERATED CA2+ ENTRY BY DE NOVO CONFORMATIONAL COUPLING IN HUMAN PLATELETS
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Cork, Northern Ireland, United Kingdom
Date of event: 22/09/2004
End date: 24/09/2004
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper
Pedro Cosme Redondo; Matthew Harper; Juan Antonio Rosado; Stewart Sage. "SUB-SECOND CHANGES IN F-ACTIN LEVELS COMPATIBLE WITH ACTIVATION OF STORE-OPERATED CA2+ ENTRY BY DE NOVO CONFORMATIONAL COUPLING IN HUMAN PLATELETS". En: J Physiol. 560P, pp. C47 - C47. Inner London (United Kingdom): IOP Publishing, 22/09/2004. Available on-line at: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20560PC47>. ISSN 1749-6187

117 **Title of the work:** Quantal influx and efflux of calcium in human platelets under experimental conditions
Name of the conference: Meeting of The European Platelet Group
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Erfut, Thüringen, Germany
Date of event: 20/06/2004
End date: 23/06/2004
Organising entity: The European Platelet Group
Publication in conference proceedings: Yes
With external admission assessment committee: Yes

Type of contribution: Scientific paper
Alfonsas Juska; Pedro Cosme Redondo; Juan Antonio Rosado. "Quantal influx and efflux of calcium in human platelets under experimental conditions". En: Platelets. 15 - 8, pp. 495 - 495. (United Kingdom): TAYLOR & FRANCIS LTD, 20/06/2004. Available on-line at: <http://informahealthcare.com/doi/pdf/10.1080/09537100412331272587>. ISSN 0953-7104

118 **Title of the work:** Two Pathways for store-mediated Calcium entry differentially modulated by the actyn cytoskeleton in human platelets
Name of the conference: Meeting of The European Platelet Group
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Erfut, Thüringen, Germany
Date of event: 20/06/2004
End date: 23/06/2004
Organising entity: The European Platelet Group
Publication in conference proceedings: Yes
With external admission assessment committee: Yes

Type of contribution: Scientific paper
Juan Antonio Rosado; Jose Javier Lopez; Alan Harper; Matthew Harper; Pedro Cosme Redondo; Jose Antonio Pariente; Gines Maria Salido; Stewart Sage. "Two Pathways for store-mediated Calcium entry differentially modulated by the actyn cytoskeleton in human platelets". En: Platelets. 15 - 8, pp. 512 - 513. (United Kingdom): TAYLOR & FRANCIS LTD, 20/06/2004. Available on-line at: <http://informahealthcare.com/doi/pdf/10.1080/09537100412331272587>. ISSN 0953-7104

119 **Title of the work:** Hydrogen peroxide generation is required for store-mediated Ca2+ entry by the activation of pp60src in human platelets
Name of the conference: Main Meeting of The Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Cambridge, Northern Ireland, United Kingdom
Date of event: 17/12/2003
End date: 19/12/2003
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: Londres, Inner London, United Kingdom

Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Pedro Cosme Redondo; Stewart Sage; Gines Maria Salido; Juan Antonio Pariente; Juan Antonio Rosado. "Hydrogen peroxide generation is required for store-mediated Ca2+ entry by the activation of pp60src in human platelets". En: J Physiol. 555P, pp. PC47 - PC47. Inner London (United Kingdom): IOP Publishing, 17/12/2003. Available on-line at: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20555PPC47>. ISSN 1749-6187

120 **Title of the work:** Actin filament modulation of capacitative calcium entry (CCE) in gallbladder smooth muscle (GBSM) cells
Name of the conference: 19 International symposium on Gastrointestinal Motility.
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Barcelona, Catalonia, Spain
Date of event: 05/10/2003
End date: 08/10/2003
Sara Morales; Juan Antonio Rosado; Pedro Javier Camello; Maria Jose Pozo. "Actin filament modulation of capacitative calcium entry (CCE) in gallbladder smooth muscle (GBSM) cells". En: Neurogastroenterology and motility. 15 - 5, pp. 574 - 574. (United States of America): John Wiley & Sons, Inc, 05/10/2003. Available on-line at: <http://onlinelibrary.wiley.com/doi/10.1046/j.1365-2982.2003.00440.x/pdf>. ISSN 1365-2982

121 **Title of the work:** Evidence for the activation of store-mediated Ca2+ entry by a secretion-like coupling mechanism in mouse pancreatic acinar cells
Name of the conference: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Puerto de La Cruz, Canary Islands, Spain
Date of event: 13/02/2003
End date: 17/02/2003
Organising entity: Sociedad Española de Ciencias Fisiológicas
Type of entity: Associations and Groups
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Juan Antonio Rosado; Pedro Cosme Redondo; Antonio Gonzalez; Gines Maria Salido; Juan Antonio Pariente. "Evidence for the activation of store-mediated Ca2+ entry by a secretion-like coupling mechanism in mouse pancreatic acinar cells". En: J Physiol. 548P, pp. P18 - P18. Inner London (United Kingdom): IOP Publishing, 13/02/2003. Available on-line at: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP18>. ISSN 1749-6187

122 **Title of the work:** Hydrogen peroxide induces release of calcium from agonist-sensitive and mitochondrial calcium stores in human platelets
Name of the conference: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Puerto de La Cruz, Canary Islands, Spain
Date of event: 13/02/2003
End date: 17/02/2003
Organising entity: Sociedad Española de Ciencias Fisiológicas
Type of entity: Associations and Groups

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Pedro Cosme Redondo; Antonio º Asuncion; Gines Maria Salido; Juan Antonio Rosado; Juan Antonio Pariente. "Hydrogen peroxide induces release of calcium from agonist-sensitive and mitochondrial calcium stores in human platelets". En: J Physiol. 548P, pp. P17 - P17. Inner London (United Kingdom): IOP Publishing, 13/02/2003. Available on-line at: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP17>. ISSN 1749-6187

123 **Title of the work:** Hydrogen peroxide reduces store-mediated Ca2+ entry and the plasma membrane calcium ATPase activity in human platelets

Name of the conference: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Puerto de La Cruz, Canary Islands, Spain

Date of event: 13/02/2003

End date: 17/02/2003

Organising entity: Sociedad Española de Ciencias Fisiológicas

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Juan Antonio Pariente; Pedro Cosme Redondo; Gines Maria Salido; Juan Antonio Rosado. "Hydrogen peroxide reduces store-mediated Ca2+ entry and the plasma membrane calcium ATPase activity in human platelets". En: J Physiol. 548P, pp. P19 - P19. Inner London (United Kingdom): IOP Publishing, 13/02/2003. Available on-line at: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP19>. ISSN 1749-6187

124 **Title of the work:** Involvement of p60src in the activation of store-mediated Ca2+ entry in mouse pancreatic acinar cells

Name of the conference: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas

Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Puerto de La Cruz, Canary Islands, Spain

Date of event: 13/02/2003

End date: 17/02/2003

Organising entity: Sociedad Española de Ciencias Fisiológicas

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Juan Antonio Rosado; Pedro Cosme Redondo; Ana Lajas; Antonio Gonzalez; Gines Maria Salido; Juan Antonio Pariente. "Involvement of p60src in the activation of store-mediated Ca2+ entry in mouse pancreatic acinar cells". En: J Physiol. 548P, pp. P22 - P22. Inner London (United Kingdom): IOP Publishing, 13/02/2003. Available on-line at: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP22>. ISSN 1749-6187

125 **Title of the work:** Los radicales de oxígeno alteran la movilización de calcio intracelular y la polimerización de filamentos de actina en acinos pancreáticos de ratón

Name of the conference: VII Reunión del Grupo Español de Radicales Libres y III Reunión Iberoamericana

Type of event: Conference **Geographical area:** National

Type of participation: 'Participatory - poster **Reasons for participation:** Open access

City of event: Cáceres, Extremadura, Spain

Date of event: 26/09/2002

End date: 28/09/2002

Organising entity: Grupo Español de Radicales Libres **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
Pedro Cosme Redondo; Juan Antonio Rosado; Antonio González; José A Pariente.

126 **Title of the work:** Actin cytoskeleton and calcium entry
Name of the conference: 7th European symposium of the European Calcium Society
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Open access
City of event: Bruxelles, Belgium
Date of event: 12/06/2002
End date: 15/06/2002
Organising entity: The European Calcium Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage.

127 **Title of the work:** Reactive oxygen species modify CCK-evoked actin filament polymerisation and amylase secretion in mouse pancreatic acinar cells
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Tübingen, Germany
Date of event: 16/03/2002
End date: 19/03/2002
Organising entity: The Physiological Society
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Antonio González; Juan Antonio Rosado; Ginés María Salido; José A. Pariente. En: European Journal of Physiology. 443 - S, pp. S326 - S326. (United Kingdom): CAMBRIDGE UNIV PRESS, 2002. ISSN 0022-3751

128 **Title of the work:** Coupling between Trp1 and IP3 receptor type II activates store-mediated calcium entry in human platelets
Name of the conference: CONGRESS OF INTERNATIONAL UNION OF PHYSIOLOGICAL SCIENCE (IUPS)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: New Zeland, Australia
Date of event: 24/08/2001
End date: 28/08/2001
Organising entity: NTERNATIONAL UNION OF PHYSIOLOGICAL SCIENCE (IUPS) **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. Available on-line at: <http://www.iups.org/2001/iups/abstracts/pdfs/a623.pdf>.

129 **Title of the work:** Endogenous Trp1 is involved in store-mediated Ca2+ entry by conformational coupling in human platelets
Name of the conference: 4th UK Platelet Meeting
Type of event: Conference **Geographical area:** Non EU International

Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Cambridge, United Kingdom
Date of event: 19/07/2001
End date: 20/07/2001
Organising entity: University of Cambridge
Type of entity: Associations and Groups
City organizing entity: Cambridge, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage.

130 **Title of the work:** Endogenous Trp1 conducts store-mediated Ca2+ entry in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Oxford, United Kingdom
Date of event: 19/03/2001
End date: 21/03/2001
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 533 - P, pp. P6 - P6. (United Kingdom): CAMBRIDGE UNIV PRESS, 05/2001. ISSN 0022-3751

131 **Title of the work:** Cyclic nucleotides regulate store-mediated Ca2+ entry via activation of protein tyrosine phosphatases and inhibition of cytoskeletal modification in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: London, Laos
Date of event: 18/12/2000
End date: 20/12/2000
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
SO Sage; T Porras; M Conde; Juan Antonio Rosado. En: Journal of Physiology. 531 - P, pp. P122 - P122. (United Kingdom): CAMBRIDGE UNIV PRESS, 2001. ISSN 0022-3751

132 **Title of the work:** Evidence for physical coupling between TRPC1 and InsP3R type II but not types I or III after depletion of the intracellular Ca2+ stores in human platelets
Name of the conference: III UK Platelet Meeting
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Bristol, United Kingdom
Date of event: 21/09/2000
End date: 22/09/2000
Organising entity: University of Bristol
Type of entity: Associations and Groups
City organizing entity: Bristol, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage.

133 **Title of the work:** Differential regulation of the cytosolic calcium concentration in hepatocellular carcinoma cells by atrial natriuretic peptide and tumour necrosis factor alpha
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: CAMBRIDGE, United Kingdom
Date of event: 18/07/2000
End date: 20/07/2000
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: london, United Kingdom
Type of contribution: Scientific paper
I Rosenzweig; S Harding; Juan Antonio Rosado; SO Sage; J Brown. En: JOURNAL OF PHYSIOLOGY-LONDON. 527 - S, pp. 83P - 84P. (United Kingdom): CAMBRIDGE UNIV PRESS, 09/2000. ISSN 0022-3751

134 **Title of the work:** Inositol trisphosphate receptors (IP3Rs) are required for the activation of store-mediated Ca2+ entry in human platelets. Evidence for physical coupling between TRPC1 and InsP3R type II
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Cambridge, United Kingdom
Date of event: 18/07/2000
End date: 20/07/2000
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 527 - P, pp. P70 - P71. (United Kingdom): CAMBRIDGE UNIV PRESS, 09/2000. ISSN 0022-3751

135 **Title of the work:** Non-capacitative Ca2+ entry activated by protein kinase C in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Cambridge, United Kingdom
Date of event: 18/07/2000
End date: 20/07/2000
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Cambridge, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 527 - P, pp. P71 - P71. (United Kingdom): CAMBRIDGE UNIV PRESS, 09/2000. ISSN 0022-3751

136 **Title of the work:** Store-mediated calcium entry is modulated by the occupancy of glycoprotein IIb/IIIa in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: CAMBRIDGE, United Kingdom
Date of event: 18/07/2000

End date: 20/07/2000
Organising entity: The Physiological Society
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
EYM Meije; Juan Antonio Rosado; JWM Heemskerk; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 527 - S, pp. 77P - 78P. (United Kingdom): CAMBRIDGE UNIV PRESS, 09/2000. ISSN 0022-3751

137 **Title of the work:** Tyrosine kinases mediate store-regulated Ca2+ entry by remodelling of the actin cytoskeleton in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference
Geographical area: European Union
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: CAMBRIDGE, United Kingdom
Date of event: 18/07/2000
End date: 20/07/2000
Organising entity: The Physiological Society
Type of entity: Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
D Graves; Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 527 - S, pp. 79P - 80P. (United Kingdom): CAMBRIDGE UNIV PRESS, 09/2000. ISSN 0022-3751

138 **Title of the work:** Evidence for conformational coupling between the calcium stores and the plasma membrane in the activation of store-mediated calcium entry in human platelets
Name of the conference: 8th Erfurt Conference on Platelets
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Erfurt, Germany
Date of event: 25/06/2000
End date: 28/06/2000
Organising entity: The European Platelet Group
Type of entity: Associations and Groups
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. 11 - 6, pp. 359 - 359. (United Kingdom): CARFAX PUBLISHING, 01/2000. Available on-line at: <http://informahealthcare.com/doi/abs/10.1080/09537100050144768>. ISSN 0953-7104

139 **Title of the work:** Regulation of the platelet plasma membrane calcium ATPase by small GTP-binding proteins
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Budapest, Hungary
Date of event: 27/05/2000
End date: 29/05/2000
Organising entity: The English Physiological Society and the Hungarian Physiological Society
Type of entity: Associations and Groups
Type of contribution: Scientific paper
JA Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 526 - S, pp. 6P - 7P. (United Kingdom): CAMBRIDGE UNIV PRESS, 08/2000. ISSN 0022-3751

140 **Title of the work:** The contribution of the P2X(1) receptor to ADP-evoked calcium signalling in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Budapest, Hungary
Date of event: 27/05/2000
End date: 29/05/2000
Organising entity: The English Physiological Society and the Hungarian Physiological Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
EH Yamoah; JWM Heemskerk; Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 526 - S, pp. 108P - 109P. (United Kingdom): CAMBRIDGE UNIV PRESS, 08/2000. ISSN 0022-3751

141 **Title of the work:** Store-mediated calcium entry in human platelets: evidence for conformational coupling
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: London, United Kingdom
Date of event: 12/04/2000
End date: 14/04/2000
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 525 - S, pp. 19P - 20P. (United Kingdom): CAMBRIDGE UNIV PRESS, 06/2000. ISSN 0022-3751

142 **Title of the work:** A role for the actin cytoskeleton in small GTPase mediation of store-regulated Ca2+ entry in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Birmingham, United Kingdom
Date of event: 20/12/1999
End date: 22/12/1999
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 523 - S, pp. 166P - 167P. (United Kingdom): CAMBRIDGE UNIV PRESS, 02/2000. ISSN 0022-3751

143 **Title of the work:** LY294002, an inhibitor of PI3 and PI4 kinases, inhibits store-regulated Ca2+ entry in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Birmingham, United Kingdom
Date of event: 20/12/1999
End date: 22/12/1999

Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 523 - S, pp. 168P - 169P. (United Kingdom): CAMBRIDGE UNIV PRESS, 02/2000. ISSN 0022-3751

144 **Title of the work:** Inhibition of store regulated Ca2+ entry by farnesylcysteine analogues in human platelets. Evidence for the involvement of small GTP binding proteins
Name of the conference: 2nd UK Platelet Meeting
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Leicester, United Kingdom
Date of event: 19/07/1999
End date: 20/07/1999
Organising entity: University of Leicester **Type of entity:** University
City organizing entity: Leicester, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. (United Kingdom):

145 **Title of the work:** A small GTP binding protein dependent step in store regulated Ca2+ entry in human platelets
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Newcastle, United Kingdom
Date of event: 13/07/1999
End date: 15/07/1999
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: London, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; SO Sage. En: JOURNAL OF PHYSIOLOGY-LONDON. 520 - P, pp. P20 - P20. (United Kingdom): CAMBRIDGE UNIV PRESS, 1999. ISSN 0022-3751

146 **Title of the work:** Differential involvement of the small GTP-binding protein Rho in amylase secretion evoked by the occupation of CCKA and M-3 muscarinic receptors in rat pancreatic acinar cells
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Date of event: 15/12/1997
End date: 17/12/1997
Organising entity: The Physiological Society **Type of entity:** Associations and Groups
City organizing entity: Cambridge, United Kingdom
Type of contribution: Scientific paper
Juan Antonio Rosado; LJ Garcia; J Singh; Ginés María Salido. En: JOURNAL OF PHYSIOLOGY-LONDON. 506P - SI, pp. 127P - 128P. (United Kingdom): CAMBRIDGE UNIVERSITY PRESS, 02/1998. ISSN 0022-3751

147 **Title of the work:** Utilización de la técnica del Western Blotting para la determinación de la fosforilación de proteínas en residuos de tirosina en acinos pancreáticos
Name of the conference: VI Congreso Nacional de la Sociedad Española de Experimentación Animal

Type of event: Conference
Geographical area: National
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Lugo, Spain
Date of event: 13/11/1997
End date: 15/11/1997
Organising entity: Sociedad Española de Experimentación Animal
Type of entity: Associations and Groups
City organizing entity: Spain
Ginés María Salido; Juan Antonio Rosado; Jose Antonio Tapia; Cristina Camello. En: Revista de experimentación animal. 8 - 1/2, pp. P115 - P115. (Spain): Sociedad Española de Experimentación Animal, 1997. ISSN 1130-2739

148 **Title of the work:** Botulinum C3 exoenzyme inhibit the tyrosine phosphorylation (TYR-P) of focal adhesion kinase (p125(FAK)) induced by CCK and carbachol in pancreatic acinar cells
Name of the conference: American Gastroenterological Association and American Association for the Study of Liver Diseases
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Washington, United States of America
Date of event: 11/05/1997
End date: 14/05/1997
Organising entity: American Gastroenterological Association and American Association for the Study of Liver Diseases
Type of entity: Associations and Groups
Type of contribution: Scientific paper
LJ Garcia; Juan Antonio Rosado; T Tsuda; RT Jensen. En: GASTROENTEROLOGY. 112 - 4, S, pp. A1149 - A1149. (United States of America): W B SAUNDERS CO, 04/1997. ISSN 0016-5085

149 **Title of the work:** Muscarinic receptors occupation causes tyrosine phosphorylation of p125FAK, paxillin and p130cas in pancreatic acinar cells
Name of the conference: Sociedad Española de Ciencias Fisiológicas y American Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Benalmádena, Spain
Date of event: 04/02/1997
End date: 07/02/1997
Organising entity: Sociedad Española de Ciencias Fisiológicas y American Physiological Society
Type of entity: Associations and Groups
Type of contribution: Scientific paper
Juan Antonio Rosado; LJ García. En: Journal of Physiology and Biochemistry. 53 - 1, pp. 88 - 88. (Spain): REV ESPANOLA FISIOLOGIA, 1997. ISSN 1138-7548

150 **Title of the work:** Cholecystokinin causes tyrosine phosphorylation of p125 Focal Adhesion Kinase and paxillin y pancreatic acinar cells by both protein kinase C and calcium-dependent and -independent pathways
Name of the conference: XXVIII Meeting del European Pancreatic Club
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Mannheim, Germany

Date of event: 12/06/1996
End date: 15/06/1996
Organising entity: European Pancreatic Club **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
LJ García; Jan Antonio Rosado; Cristina Camello; T Tsuda; RT Jensen. En: Digestion. 57 - 4, pp. 228 - 229. (Switzerland): KARGER, 1996. Available on-line at: <http://content.karger.com/ProdukteDB/produkte.asp?Aktion=Ausgabe&Ausgabe=242174&ProduktNr=223838>. ISSN 0012-2823

151 **Title of the work:** Both low and high affinity CCK receptor states mediate CCK stimulation of p125 focal adhesion kinase and paxillin tyrosine phosphorylation in rat pancreatic acinar cells
Name of the conference: American Gastroenterological Association
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: San Francisco, United States of America
Date of event: 19/05/1996
End date: 22/05/1996
Organising entity: American Gastroenterological Association **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
LJ Garcia; Juan Antonio Rosado; T Tsuda; RT Jensen. En: GASTROENTEROLOGY. 110 - 4, S, pp. A390 - A390. (United States of America): W B SAUNDERS CO, 04/1996. ISSN 0016-5085

152 **Title of the work:** Determinación de la secreción de amilasas in vitro en el páncreas exocrino
Name of the conference: V Congreso Nacional de la Sociedad Española de Experimentación Animal
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Cáceres, Spain
Date of event: 14/12/1995
End date: 16/12/1995
Organising entity: Sociedad Española de Experimentación Animal **Type of entity:** Associations and Groups
City organizing entity: Madrid, Spain
Type of contribution: Scientific paper
Al Lajas; Antonio González; Juan Antonio Rosado; S Alcón; MM Gómez MM. En: Revista de experimentación animal. 6 - 1, pp. P87 - P87. (Spain): Sociedad Española de Experimentación Animal, 1995. ISSN 1130-2739

153 **Title of the work:** Determinación de tripsinas on-line
Name of the conference: V Congreso Nacional de la Sociedad Española de Experimentación Animal
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Cáceres, Spain
Date of event: 14/12/1995
End date: 16/12/1995
Organising entity: Sociedad Española de Experimentación Animal **Type of entity:** Associations and Groups
City organizing entity: Madrid, Spain
Type of contribution: Scientific paper

Juan Antonio Rosado; Antonio González; Al Lajas; S Alcón; MM Gómez MM. En: Revista de experimentación animal. 6 - 1, pp. P87 - P87. (Spain): Sociedad Española de Experimentación Animal, 1995. ISSN 1130-2739

154 **Title of the work:** Efecto de la estimulación electrica de campo sobre el tono basal de las tiras musculares de vesícula biliar de cobaya
Name of the conference: V Congreso Nacional de la Sociedad Española de Experimentación Animal
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Cáceres, Spain
Date of event: 14/12/1995
End date: 16/12/1995
Organising entity: Sociedad Española de Experimentación Animal
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
Type of contribution: Scientific paper
S Alcón; Juan Antonio Rosado; Al Lajas; Antonio González; MM Gómez MM. En: Revista de experimentación animal. 6 - 1, pp. P76 - P76. (Spain): Sociedad Española de Experimentación Animal, 1995. ISSN 1130-2739

155 **Title of the work:** El páncreas perfundido aislado como modelo de estudio de la secreción pancreática
Name of the conference: V Congreso Nacional de la Sociedad Española de Experimentación Animal
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Cáceres, Spain
Date of event: 14/12/1995
End date: 16/12/1995
Organising entity: Sociedad Española de Experimentación Animal
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
Type of contribution: Scientific paper
Pedro J Camello; Cristina Camello; Antonio González; Juan Antonio Rosado; Al Lajas; S Alcón; MM Gómez MM. En: Revista de experimentación animal. 6 - 1, pp. P86 - P86. (Spain): Sociedad Española de Experimentación Animal, 1995. ISSN 1130-2739

156 **Title of the work:** Técnicas de fluorescencia aplicadas al estudio de la funcionalidad celular
Name of the conference: V Congreso Nacional de la Sociedad Española de Experimentación Animal
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Cáceres, Spain
Date of event: 14/12/1995
End date: 16/12/1995
Organising entity: Sociedad Española de Experimentación Animal
Type of entity: Associations and Groups
City organizing entity: Madrid, Spain
Type of contribution: Scientific paper
Antonio González; Al Lajas; Juan Antonio Rosado; S Alcón; MM Gómez MM. En: Revista de experimentación animal. 6 - 1, pp. P88 - P88. (Spain): Sociedad Española de Experimentación Animal, 1995. ISSN 1130-2739

157 **Title of the work:** Interaction between secretin and cholecystokinin in guinea-pig exocrine pancreas
Name of the conference: 27 Congreso de la Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Salamanca, Spain
Date of event: 02/10/1995
End date: 05/10/1995
Organising entity: la Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Type of entity: Associations and Groups
Type of contribution: Scientific paper
S Alcon; Juan Antonio Rosado; JA Pariente; LJ Garcia; MJ Pozo. En: JOURNAL OF PHYSIOLOGY-LONDON. 493P, pp. S155 - S155. (United Kingdom): CAMBRIDGE UNIV PRESS, 05/1996. Available on-line at: <http://jp.physoc.org/content/493/P.toc>. ISSN 0022-3751

158 **Title of the work:** Modulation of pancreatic enzyme secretion by protein tyrosine kinases in response to CCK-8 and JMV-180
Name of the conference: 27 Congreso de la Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Salamanca, Spain
Date of event: 02/10/1995
End date: 05/10/1995
Organising entity: Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Type of entity: Associations and Groups
Type of contribution: Scientific paper
Juan Antonio Rosado; Ginés María Salido; LJ Garcia. En: JOURNAL OF PHYSIOLOGY-LONDON. 493P, pp. S154 - S155. (United Kingdom): CAMBRIDGE UNIV PRESS, 05/1996. ISSN 0022-3751

159 **Title of the work:** The gastrin-releasing peptide (GRP) receptor demonstrates differences in coupling to adenylate cyclase in pancreatic acinar cells, swiss 3T3 and human small cell lung cancer (SCLC) cells
Name of the conference: XXVII Meeting of European Pancreatic Club
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Reasons for participation: Open access
City of event: Barcelona, Spain
Date of event: 28/06/1995
End date: 01/07/1995
Organising entity: European Pancreatic Club
Type of entity: Associations and Groups
Type of contribution: Scientific paper
Antonio González; Juan Antonio Rosado; TK Pradham; HC Weber; LJ García; RT Jensen. En: Digestion. 56 - 4, pp. 289 - 290. (Switzerland): KARGER, 1995. ISSN 0012-2823

160 **Title of the work:** EFFECT OF HISTAMINE ON POTASSIUM RELEASE FROM THE ISOLATED GUINEA-PIG PANCREATIC SEGMENTS
Name of the conference: MAIN PHYSOC MEETING
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Open access
City of event: Liverpool, United Kingdom
Date of event: 11/04/1994
End date: 13/04/1994

Organising entity: The Physiological Society **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
LJ García; Juan Antonio Rosado; José Antonio Tapia; Ginés María Salido. En: JOURNAL OF PHYSIOLOGY-LONDON. 477P, pp. P70 - P70. (United Kingdom): CAMBRIDGE UNI PRESS, 06/1994. ISSN 0022-3751

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

1 **Committee title:** Comité Evaluador del Servicio Español para la Internacionalización de la Educación (SEPIE)
Primary (UNESCO code): 580202 - Educational institutions; organization and management
Affiliation entity: Servicio Español para la Internacionalización de la Educación (SEPIE)
City affiliation entity: Madrid, Community of Madrid, Spain
Start-End date: 2015 - 2016

2 **Committee title:** COMITÉ EDITORIAL DE LA REVISTA FISIOLOGÍA DE LA SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Geographical area: National
Primary (UNESCO code): 310909 - Physiology
Affiliation entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City affiliation entity: VALLADOLID, Castile and León, Spain
Start date: 2009

3 **Committee title:** ANEP
Affiliation entity: Ministerio de Ciencia, Innovación y Universidades **Type of entity:** State agency
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 2006

Organization of R&D activities

1 **Title of the activity:** VII reunión de la Red Española de Canales Iónicos
Type of activity: Organizador del congreso **Geographical area:** Non EU International
Convening entity: Red Española de Canales Iónicos
City convening entity: Elche, Valencian Community, Spain
Start-End date: 15/05/2019 - 17/05/2019 **Duration:** 2 days

2 **Title of the activity:** 14th European Calcium Society Meeting
Type of activity: Congreso Científico Internacional **Geographical area:** Non EU International
City of event: Valladolid, Castile and León, Spain
Convening entity: European Calcium Society **Type of entity:** Associations and Groups
City convening entity: Bruselas, Belgium
Type of participation: Organiser
Nº assistants: 300
Start-End date: 25/09/2016 - 28/09/2016 **Duration:** 4 days

R&D management

Name of the activity: Simposium Señalización por calcio-Calcium Signalling"
Type of management: Management of organised events
Performed tasks: Organizador del Simposium Señalización por calcio-Calcium Signalling"
City of entity: VALLADOLID, Castile and León, Spain
Entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Start date: 2007 **Duration:** 1 day
Access system: By public merit
Nº of people: 4
Geographical area: Non EU International
Specific tasks: ORGANIZACION DE SIMPOSIO

Evaluation and revision of R&D projects and articles

1 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: ASSOCIATE EDITOR
Entity where activity was carried out: FRONTIERS IN PHARMACOLOGY-ION CHANNELS AND CHANNELOPATHIES **Type of entity:** REVISTA CIENTÍFICA/TECNOLÓGICA
City of entity: LAUSANA, Switzerland
Type of activity: Participation in editorial committees **Frequency of the activity:** 10
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start-End date: 2015 - 2020

2 **Name of the activity:** Evaluar proyectos internacionales de investigación
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: THE ISRAEL SCIENCE FOUNDATION (ISF) **Type of entity:** Foundation
City of entity: JERUSALEM, Israel
Type of activity: Panel de evaluadores **Frequency of the activity:** 1
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start-End date: 2013 - 2015

3 **Name of the activity:** Evaluar proyectos internacionales de investigación
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: AUSTRIAN SCIENCE FUND (FWF)
City of entity: VIENA, Austria
Type of activity: Panel de evaluadores **Frequency of the activity:** 2
Access system: Designated by the corresponding party without competition **Geographical area:** European Union
Start-End date: 2011 - 2015

4 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: EDITOR
Entity where activity was carried out: JOURNAL OF BIOLOGICAL CHEMISTRY-AMERICAN **Type of entity:** Associations and Groups

ASSOCIATION OF BIOCHEMISTRY AND MOLECULAR BIOLOGY
City of entity: BETHESDA, United States of America
Type of activity: Participation in editorial committees **Frequency of the activity:** 40
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start-End date: 2010 - 2015

5 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: EDITOR
Entity where activity was carried out: FISIOLOGIA-SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City of entity: VALLADOLID, Spain
Type of activity: Participation in editorial committees **Frequency of the activity:** 21
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start-End date: 2009 - 2012

6 **Name of the activity:** Evaluar proyectos nacionales de investigación en salud (FIS) y proyectos nacionales del MICINN
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: ANEP **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Type of activity: Panel de evaluadores **Frequency of the activity:** 10
Access system: Designated by the corresponding party without competition **Geographical area:** National
Start-End date: 2008 - 2012

7 **Name of the activity:** Evaluar proyectos nacionales de investigación
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: MEDICAL RESEARCH COUNCIL
City of entity: LONDRES, United Kingdom
Type of activity: Panel de evaluadores **Frequency of the activity:** 1
Access system: Designated by the corresponding party without competition **Geographical area:** European Union
Start-End date: 2011 - 2011

8 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: EDITOR
Entity where activity was carried out: JOURNAL OF BIOLOGICAL SCIENCE
City of entity: FASIALABAD, Pakistan
Type of activity: Participation in editorial committees **Frequency of the activity:** 1
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start-End date: 2010 - 2011

9 **Name of the activity:** Evaluar proyectos internacionales de investigación
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: WELCOME TRUST **Type of entity:** Public Research Body
City of entity: LONDRES, United Kingdom
Type of activity: Panel de evaluadores **Frequency of the activity:** 2

Access system: Designated by the corresponding party without competition
Geographical area: European Union
Start-End date: 2010 - 2011

10 **Name of the activity:** Evaluar proyectos internacionales de investigación
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: TELETHOM **Type of entity:** organismo privado
City of entity: Roma, Italy
Type of activity: Panel de evaluadores **Frequency of the activity:** 1
Access system: Designated by the corresponding party without competition **Geographical area:** National
Start-End date: 2010 - 2010

11 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: EDITOR
Entity where activity was carried out: CELL CALCIUM
City of entity: Nueva York, United States of America
Type of activity: Participation in editorial committees **Frequency of the activity:** 10
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start date: 2014

12 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: EDITOR
Entity where activity was carried out: BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH
City of entity: Nueva York, United States of America
Type of activity: Participation in editorial committees **Frequency of the activity:** 10
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start date: 2013

13 **Name of the activity:** EVALUACION DE ARTICULOS CIENTIFICOS
Performed tasks: EDITOR
Entity where activity was carried out: DATASET PAPERS IN MEDICINE
City of entity: NUEVA YORK, United States of America
Type of activity: Participation in editorial committees **Frequency of the activity:** 1
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start date: 2012

Other achievements

Stays in public or private R&D centres

1 **Entity:** Department of Physiology, University of Cambridge, Cambridge, Reino Unido **Type of entity:** University
Faculty, institute or centre: DEPARTAMENTO DE FISIOLOGIA
City of entity: CAMBRIDGE, United Kingdom
Primary (UNESCO code): 241104 - Endocrina physiology
Secondary (UNESCO code): 241100 - Human physiology
Start-End date: 01/07/2002 - 31/07/2002 **Duration:** 1 month
Funding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Name of programme: : programa de ayudas para la movilidad de personal investigador. Becas para la movilidad de personal docente e investigador de la Junta de Extremadura
Goals of the stay: Post-doctoral
Provable tasks: Estudio del papel de las proteínas SNARE en la entrada capacitativa de calcio en células no excitables.
Acquired skills developed: Realización de experimentos en colaboración con el grupo del Dr. Sage
Relevant results: PUBLICACION DE 1 ARTICULO CIENTÍFICOS EN REVISTA DEL PRIMER CUARTIL DE SU CAMPO CIENTIFICO

2 **Entity:** Department of Physiology, University of Cambridge, Cambridge, Reino Unido **Type of entity:** University
Faculty, institute or centre: DEPARTAMENTO DE FISIOLOGIA
City of entity: CAMBRIDGE, United Kingdom
Primary (UNESCO code): 241104 - Endocrina physiology
Secondary (UNESCO code): 241100 - Human physiology
Start-End date: 20/11/1998 - 19/11/2000 **Duration:** 2 years
Funding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Name of programme: Programa de becas postdoctorales de formación de personal docente e investigador (Junta de Extremadura).
Goals of the stay: Post-doctoral
Provable tasks: Estudio de los mecanismos de activación de la entrada capacitativa de calcio en plaquetas humanas
Acquired skills developed: Estancia postdoctoral en el laboratorio del Dr. Sage
Relevant results: PUBLICACION DE 10 ARTICULOS CIENTÍFICOS EN REVISTAS MAYORITARIAMENTE DEL PRIMER CUARTIL DE SU CAMPO CIENTIFICO

3 **Entity:** Department of Physiology, University of Cambridge, Cambridge, Reino Unido **Type of entity:** University
City of entity: CAMBRIDGE, United Kingdom
Primary (UNESCO code): 241104 - Endocrina physiology
Secondary (UNESCO code): 241100 - Human physiology
Start-End date: 01/05/1998 - 31/07/1998 **Duration:** 3 months
Funding entity: Ministerio de Educación, Política Social y Deporte
Name of programme: Programa de estancias cortas en el extranjero. Becas para estancias cortas del MEC
Goals of the stay: Post-doctoral
Provable tasks: Estudio del papel de las tirosinas cinasas en la entrada capacitativa de calcio en acinos pancreáticos.

Acquired skills developed: Aprendizaje de distintas técnicas bioquímicas laboratoriales
Relevant results: REALIZACION DE EXPERIMENTOS QUE SIRVIERON DE BASE PARA LA ESTANCIA POSTDOCTORAL DE LARGA DURACION

4 **Entity:** Digestive Diseases Brach, National Institutes of Diabetes and Digestive and Kidney Diseases, National Institutes of Health. Bethesda, Maryland. U.S.A. **Type of entity:** Public Research Body
Faculty, institute or centre: National Institutes of Diabetes and Digestive and Kidney Diseases
City of entity: BETHESDA, United States of America
Primary (UNESCO code): 241104 - Endocrina physiology
Secondary (UNESCO code): 241100 - Human physiology
Start-End date: 15/10/1995 - 15/12/1995 **Duration:** 2 months
Funding entity: Ministerio de Educación, Política Social y Deporte
Name of programme: Programa de estancias cortas en el extranjero. Becas para estancias cortas del MEC
Goals of the stay: Doctorate
Provable tasks: Efecto de la CCK-8 en la fosforilación en residuos de tirosina de las proteínas p125FAK y paxilina en acinos pancreáticos
Acquired skills developed: Aprendizaje de distintas técnicas bioquímicas laboratoriales
Relevant results: publicacion de dos articulos en Biochemical Journal y Biochimica et Biophysica Acta

Obtained grants and scholarships

1 **Name of the grant:** BECA ASISTENCIA al PHYSIOLOGICAL SOCIETY MEETING "PHYSIOLOGY 2011" OXFORD, REINO UNIDO
Aims: ASISTENCIA A CONGRESO
Awarding entity: THE PHYSIOLOGICAL SOCIETY **Type of entity:** Associations and Groups
Conferral date: 2011
End date: 2011
Entity where activity was carried out: THE PHYSIOLOGICAL SOCIETY

2 **Name of the grant:** BECA ASISTENCIA al EXPERIMENTAL BIOLOGY MEETING, ANAHEIM, USA
Aims: ASISTENCIA A CONGRESO
Awarding entity: THE PHYSIOLOGICAL SOCIETY **Type of entity:** Associations and Groups
Conferral date: 2010
End date: 2010
Entity where activity was carried out: THE PHYSIOLOGICAL SOCIETY

3 **Name of the grant:** BECA ASISTENCIA al XXXIII Congreso de la Sociedad Española de Ciencias Fisiológicas junto con The Physiological Society and the Dutch Physiological Society
Aims: ASISTENCIA A CONGRESO
Awarding entity: THE PHYSIOLOGICAL SOCIETY **Type of entity:** Associations and Groups
Conferral date: 2005
End date: 2005
Entity where activity was carried out: THE PHYSIOLOGICAL SOCIETY

4 **Name of the grant:** BECA ASISTENCIA al Joint Meeting of The Physiological Society y la Sociedad Española de Ciencias Fisiológicas
Aims: ASISTENCIA A CONGRESO
Awarding entity: THE PHYSIOLOGICAL SOCIETY **Type of entity:** Associations and Groups
Conferral date: 2003

End date: 2003
Entity where activity was carried out: THE PHYSIOLOGICAL SOCIETY

5 **Name of the grant:** BECA PARA REALIZACIÓN DE ESTANCIA BREVE EN EL DEPARTAMENTO DE FISIOLOGÍA DE LA UNIVERSIDAD DE CAMBRIDGE
Aims: Post-doctoral
Awarding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Conferral date: 01/07/2002 **Duration:** 2 months
End date: 31/07/2002
Entity where activity was carried out: Junta de Extremadura

6 **Name of the grant:** BECARIO POSTDOCTORAL DE REINCORPORACIÓN AL SISTEMA DE CIENCIA-TECNOLOGÍA-ECONOMÍA-SOCIEDAD DE EXTREMADURA
Aims: Post-doctoral
Awarding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Conferral date: 01/01/2001 **Duration:** 23 days
End date: 23/01/2001
Entity where activity was carried out: Junta de Extremadura
Faculty, institute or centre: Adscrito al Departamento de Fisiología de la Universidad de Extremadura

7 **Name of the grant:** BECARIO POSTDOCTORAL DE FORMACIÓN DE PERSONAL DOCENTE E INVESTIGADOR
Aims: Post-doctoral
Awarding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Conferral date: 20/11/1998 **Duration:** 2 years
End date: 20/11/2000
Entity where activity was carried out: Junta de Extremadura
Faculty, institute or centre: Adscrito al Department of Physiology, University of Cambridge, Reino Unido

8 **Name of the grant:** BECA ASISTENCIA al Joint Meeting of The Physiological Society and The Hungarian Physiological Society
Aims: ASISTENCIA A CONGRESO
Awarding entity: THE PHYSIOLOGICAL SOCIETY **Type of entity:** Associations and Groups
Conferral date: 2000
End date: 2000
Entity where activity was carried out: THE PHYSIOLOGICAL SOCIETY

9 **Name of the grant:** BECARIO DEL PROGRAMA DE FORMACION DE PROFESORADO UNIVERSITARIO Y PERSONAL INVESTIGADOR
Aims: Pre-doctoral
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 01/01/1995 **Duration:** 3 years - 10 months - 19 days
End date: 19/11/1998
Entity where activity was carried out: MINISTERIO DE EDUCACION Y CIENCIA
Faculty, institute or centre: FACULTAD DE VETERINARIA, UNIVERSIDAD DE EXTREMADURA

10 **Name of the grant:** BECA PARA REALIZACIÓN DE ESTANCIA BREVE EN EL DEPARTAMENTO DE FISIOLOGÍA DE LA UNIVERSIDAD DE CAMBRIDGE
Aims: Pre-doctoral
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 01/05/1998 **Duration:** 3 months

End date: 31/07/1998
Entity where activity was carried out: MINISTERIO DE EDUCACION Y CIENCIA

11 **Name of the grant:** BECA ASISTENCIA al 28 Congreso de la Sociedad Española de Ciencias Fisiológicas y The American Physiological Society
Aims: ASISTENCIA A CONGRESO
Awarding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Conferral date: 1997
End date: 1997
Entity where activity was carried out: Junta de Extremadura

12 **Name of the grant:** BECA ASISTENCIA al XVIII Congreso del European Pancreatic Club
Aims: ASISTENCIA A CONGRESO
Awarding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Conferral date: 1996
End date: 1996
Entity where activity was carried out: Junta de Extremadura

13 **Name of the grant:** BECA PARA REALIZACIÓN DE ESTANCIA BREVE EN EL NATIONAL INSTITUTES OF HEALTH, USA
Aims: Pre-doctoral
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 15/10/1995 **Duration:** 2 months
End date: 15/12/1995
Entity where activity was carried out: MINISTERIO DE EDUCACION Y CIENCIA

14 **Name of the grant:** BECA ASISTENCIA al 27 Congreso de la Sociedad Española de Ciencias Fisiológicas
Aims: ASISTENCIA A CONGRESO
Awarding entity: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Conferral date: 1995
End date: 1995
Entity where activity was carried out: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS

15 **Name of the grant:** BECA ASISTENCIA al V Congreso de la Sociedad Española de Experimentación Animal
Aims: ASISTENCIA A CONGRESO
Awarding entity: SOCIEDAD ESPAÑOLA DE EXPERIMENTACIÓN ANIMAL **Type of entity:** Associations and Groups
Conferral date: 1995
End date: 1995
Entity where activity was carried out: SOCIEDAD ESPAÑOLA DE EXPERIMENTACIÓN ANIMAL

16 **Name of the grant:** BECA ASISTENCIA al XXVII Congreso del European Pancreatic Club
Aims: ASISTENCIA A CONGRESO
Awarding entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
Conferral date: 1995
End date: 1995
Entity where activity was carried out: Junta de Extremadura

Scientific societies and professional associations

1 **Name of the society:** AMERICAN PHYSIOLOGICAL SOCIETY
City affiliation entity: BETHESDA, United States of America
Identify key words: Physiology
Start-End date: 2008 - 2012

2 **Name of the society:** EUROPEAN PANCREATIC CLUB
City affiliation entity: MUNICH, Germany
Start-End date: 1995 - 1996

3 **Name of the society:** EUROPEAN CALCIUM SOCIETY
City affiliation entity: BRUSELAS, Belgium
Identify key words: Biophysic chemistry
Start date: 2015

4 **Name of the society:** SOCIEDAD BIOFISICA DE ESPAÑA
City affiliation entity: MADRID, Community of Madrid, Spain
Identify key words: Biophysic chemistry
Start date: 2011

5 **Name of the society:** AMERICAN SOCIETY OF BIOCHEMISTRY AND MOLECULAR BIOLOGY
City affiliation entity: BETHESDA, United States of America
Identify key words: Biochemical technology; Biochemistry
Start date: 2002

6 **Name of the society:** PHYSIOLOGICAL SOCIETY
City affiliation entity: CAMBRIDGE, United Kingdom
Identify key words: Physiology
Start date: 1997

7 **Name of the society:** SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
City affiliation entity: VALLADOLID, Castile and León, Spain
Identify key words: Physiology
Nº of members: 400
Start date: 1997

Co-operation networks

Name of the network: RED ESPAÑOLA DE CANALES IÓNICOS (RECI)
Identification of the network: RED BASADA EN EL ESTUDIO DE CANALES IÓNICOS
City of co-operation network: ELCHE, Valencian Community, Spain
Start date: 2010 **Duration:** 3 years

Prizes, mentions and distinctions

1 **Description:** PREMIO A LA EXCELENCIA DOCENTE
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Conferral date: 2015

2 **Description:** PREMIO A LA EXCELENCIA DOCENTE
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Conferral date: 2009

3 **Description:** PREMIO EXTRAORDINARIO DE DOCTORADO
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Conferral date: 1999

4 **Description:** PREMIO A LA MEJOR COMUNICACIÓN PRESENTADA POR JÓVENES INVESTIGADORES NO DOCTORES (V Congreso de la Sociedad Española de Experimentación Animal)
Awarding entity: SOCIEDAD ESPAÑOLA DE EXPERIMENTACIÓN ANIMAL-LIBRERÍA FIGEROA-2 **Type of entity:** Associations and Groups
City awarding entity: CACERES, Extremadura, Spain
Conferral date: 1995

5 **Description:** PREMIO EXTRAORDINARIO DE LICENCIATURA
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Conferral date: 1995

6 **Description:** PREMIO FIN DE CARRERA “BANCO EXTERIOR” PARA ESTUDIOS DE CIENCIAS
Awarding entity: Universidad de Extremadura y Banco Exterior **Type of entity:** University
City awarding entity: BADAJOZ, Extremadura, Spain
Conferral date: 1995

7 **Description:** PRIMER PREMIO NACIONAL DE TERMINACIÓN DE ESTUDIOS DE VETERINARIA
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
City awarding entity: MADRID, Community of Madrid, Spain
Conferral date: 1995

8 **Description:** ALUMNO DISTINGUIDO. VETERINARIA. ESPECIALIDAD MEDICINA Y SANIDAD ANIMAL
Awarding entity: Universidad de Extremadura **Type of entity:** University
City awarding entity: CACERES, Extremadura, Spain
Conferral date: 1994

9 **Description:** PREMIO FIN DE CARRERA “LUIS DE CÁCERES” PARA ESTUDIOS DE VETERINARIA
Awarding entity: CAJA DE EXTREMADURA **Type of entity:** Business
City awarding entity: CACERES, Extremadura, Spain

Conferral date: 1994

Periods of research activity

1 **Nº of recognized periods:** 2
Geographical area: Regional
Certifying entity: Junta de Extremadura **Type of entity:** ORGANISMO PUBLICO
City certifying entity: CACERES, Extremadura, Spain
Date of recognition: 2014

2 **Nº of recognized periods:** 3
Geographical area: National
Certifying entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** MINISTERIO
City certifying entity: CACERES, Extremadura, Spain
Date of recognition: 31/12/2012

Summary of other achievements

1 **Description of the achievement:** EDITOR DEL LIBRO CALCIUM ENTRY PATHWAYS IN NON-EXCITABLE CELLS ISBN 978-3-319-26972-6
Accrediting entity: SPRINGER **Type of entity:** Editorial
City accrediting entity: United States of America
Conferral date: 2016

2 **Description of the achievement:** Miembro de la Comisión de Evaluación Docente del Departamento de Fisiología desde el 23 de enero de 2014
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: Cáceres, Extremadura, Spain
Conferral date: 23/01/2014

3 **Description of the achievement:** EDITOR DEL LIBRO ENDOTHELIAL CYTOSKELETON DE LA EDITORIAL CRC PRESS-SCIENCE PUBLISHERS ISBN 978-14-665-9035-9
Accrediting entity: CRC Press **Type of entity:** Editorial
City accrediting entity: United States of America
Conferral date: 2013

4 **Description of the achievement:** Miembro de la Comisión para el estudio de dobles titulaciones con el Grado en Veterinaria
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: Cáceres, Extremadura, Spain
Conferral date: 13/12/2012

5 **Description of the achievement:** PRIMER PREMIO DE CIENCIAS BIOMÉDICAS EN EL 8º CERTAMEN UNIVERSITARIO ARQUÍMEDES como tutor del trabajo “Implicación del Ca2+ en las alteraciones fisiopatológicas ocasionadas por las proteínas NS5A y Core del virus de la hepatitis C en hepatocitos
Accrediting entity: MINISTERIO DE EDUCACION Y CIENCIA
City accrediting entity: CACERES, Community of Madrid, Spain
Conferral date: 2011

6 **Description of the achievement:** Miembro de la Comisión de Evaluación de la Docencia de la Facultad de Veterinaria
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: Cáceres, Extremadura, Spain
Conferral date: 16/06/2008

7 **Description of the achievement:** Representante de Profesores numerarios en Junta de Facultad, Facultad de Veterinaria de la UEX
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 2008

8 **Description of the achievement:** Miembro de la Comisión de de Programas de Cooperación Universitaria y de Movilidad de la Universidad de Extremadura
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: Cáceres, Extremadura, Spain
Conferral date: 18/03/2004

9 **Description of the achievement:** COORDINADOR DE PROGRAMAS INTERUNIVERSITARIOS Y MOVILIDAD DE LA FACULTAD DE VETERINARIA
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 03/2004

10 **Description of the achievement:** Miembro de la Comisión de Bioética de la Universidad de Extremadura
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 2003

11 **Description of the achievement:** Miembro del Consejo del Departamento de Fisiología de la Universidad de Extremadura
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 2002

12 **Description of the achievement:** Referee de distintas revistas científiicas, entre ellas: The Journal of Physiology, Journal of Thrombosis and Haemostasis, Biochimica et Biophysica Acta, European Journal of Neuroscience, Equine Veterinary Journal, NeuroSignals, Regulatory Peptides, Molecular and Cellular Physiology, Journal of Pharmacy and Pharmacology, Pharmacology Research, Acta Pharmacologica Sinica, Cell Communication and Signalling, ETC
Accrediting entity: COMITES EDITORIALES DE LAS REVISTAS
Conferral date: 2000

13 **Description of the achievement:** Representante de Profesores Asociados, Ayudantes y Becarios de Investigación en el Claustro Universitario de la UEX
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 1998

14 **Description of the achievement:** Representante de Profesores no numerarios y becarios en Junta de Facultad, Facultad de Veterinaria de la UEX
Accrediting entity: Universidad de Extremadura **Type of entity:** University

City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 1996

15 **Description of the achievement:** Alumno Interno del Departamento de Fisiología de la Facultad de Veterinaria de la UEX durante los cursos académicos 1991-92, 1992-93 y 1993-94
Accrediting entity: Universidad de Extremadura **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 1991

16 **Description of the achievement:** Realización de Prácticas de Iniciación al Campo Profesional organizadas por la Facultad de Veterinaria de la UEX. Agosto 1990
Accrediting entity: FACULTAD DE VETERINARIA DE LA UNIVERSIDAD DE EXTREMADURA **Type of entity:** University
City accrediting entity: CACERES, Extremadura, Spain
Conferral date: 1990

CURRÍCULUM VÍTAE NORMALIZADO

Gines M. Salido Ruiz

Generado desde: Junta de Extremadura

Fecha del documento: 15/02/2019

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GOBIERNO DE ESPAÑA
MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Gines M. Salido Ruiz

Apellidos:	**Salido Ruiz**
Nombre:	**Gines M.**
DNI:	**2** **2**
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Nacionalidad:	**España**
País de nacimiento:	**España**
C. Autón./Reg. de nacimiento:	**Andalucía**
Provincia de contacto:	**Cáceres**
Ciudad de nacimiento:	

Correo electrónico: **gsalido@unex.es**
Teléfono móvil:

Situación profesional actual

Entidad empleadora: Universidad de Extremadura
Departamento: Fisiología, Facultad de Veterinaria
Categoría profesional: Catedrático de Universidad
Gestión docente (Sí/No): Si
Ciudad entidad empleadora: Cáceres, Extremadura, España
Teléfono: (0034) 927257100 - 57134
Fax: (0034) 927257100 - 7110
Correo electrónico: gsalido@unex.es
Fecha de inicio: 01/07/1991
Modalidad de contrato: Funcionario/a
Régimen de dedicación: Tiempo completo
Primaria (Cód. Unesco): 241010 - Fisiología humana
Ámbito actividad de gestión: Universitaria

Cargos y actividades desempeñados con anterioridad

	Entidad empleadora	Categoría profesional	Fecha de inicio
1	Universidad de Extremadura	Profesor	30/09/1984
2	Universidad de Granada	Profesor	30/09/1983
3	Universidad de Granada	Profesor Ayudante de Clases Practicas	30/09/1976
4	Universidad de Extremadura	Profesor titular de universidad	09/04/1986

1 **Entidad empleadora:** Universidad de Extremadura **Tipo de entidad:** Universidad
Departamento: Fisiología, Facultad de Veterinaria
Ciudad entidad empleadora: Cáceres, Extremadura, España
Categoría profesional: Profesor **Gestión docente (Sí/No):** Si
Teléfono: (0034) 927257100 - 57134 **Fax:** (0034) 927257100 - 7110 **Correo electrónico:** gsalido@unex.es
Fecha de inicio-fin: 30/09/1984 - 08/04/1986 **Duración:** 2 años
Modalidad de contrato: Contrato laboral indefinido
Régimen de dedicación: Tiempo completo
Primaria (Cód. Unesco): 241100 - Fisiología humana
Ámbito actividad de gestión: Universitaria

2 **Entidad empleadora:** Universidad de Granada **Tipo de entidad:** Universidad
Departamento: Fisiología, Escuela Universitaria de nutrición
Ciudad entidad empleadora: Granada, Andalucía, España
Categoría profesional: Profesor **Gestión docente (Sí/No):** Si
Fecha de inicio-fin: 30/09/1983 - 30/09/1984 **Duración:** 1 año
Modalidad de contrato: Contrato laboral indefinido
Régimen de dedicación: Tiempo completo
Primaria (Cód. Unesco): 241100 - Fisiología humana
Ámbito actividad de gestión: Universitaria

3 **Entidad empleadora:** Universidad de Granada **Tipo de entidad:** Universidad
Departamento: Fisiología, Facultad de Farmacia
Ciudad entidad empleadora: Granada, Andalucía, España
Categoría profesional: Profesor Ayudante de Clases Practicas **Gestión docente (Sí/No):** Si
Fecha de inicio-fin: 30/09/1976 - 30/09/1984 **Duración:** 8 años
Modalidad de contrato: Contrato laboral indefinido
Primaria (Cód. Unesco): 241100 - Fisiología humana
Ámbito actividad de gestión: Universitaria

4 **Entidad empleadora:** Universidad de Extremadura **Tipo de entidad:** Universidad
Departamento: Fisiología, Facultad de Veterinaria
Ciudad entidad empleadora: Cáceres, Extremadura, España
Categoría profesional: Profesor titular de universidad **Gestión docente (Sí/No):** Si
Teléfono: (0034) 927257100 - 57134 **Fax:** (0034) 927257100 - 7110 **Correo electrónico:** gsalido@unex.es
Fecha de inicio: 09/04/1986 **Duración:** 26 años - 7 meses
Modalidad de contrato: Funcionario/a
Régimen de dedicación: Tiempo completo
Primaria (Cód. Unesco): 241100 - Fisiología humana
Ámbito actividad de gestión: Universitaria

Formación académica recibida

Titulación universitaria

Estudios de 1º y 2º ciclo, y antiguos ciclos (Licenciados, Diplomados, Ingenieros Superiores, Ingenieros Técnicos, Arquitectos)

1 **Titulación universitaria:** Titulado Medio
Nombre del título: Nutrición Humana y Dietética
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de titulación: 02/07/1982

2 **Titulación universitaria:** Titulado Superior
Nombre del título: Licenciado en Ciencias Biológicas Especialidad Biología Fundamental
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de titulación: 03/11/1976
Nota media del expediente: Aprobado

Doctorados

Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Ciudad entidad titulación: Granada, Andalucía, España
Fecha de titulación: 27/05/1981
Calificación obtenida: Sobresaliente Cum la

Formación especializada, continuada, técnica, profesionalizada, de reciclaje y actualización (distinta a la formación académica reglada y a la sanitaria)

1 **Tipo de la formación:** Curso
Título de la formación: II Jornadas internacionais de patologia do tubo digestivo
Ciudad entidad titulación: Lisboa, Portugal
Entidad de titulación: Facultade de Ciencias médicas da universidade Nova de Lisboa **Tipo de entidad:** Universidad
Fecha de finalización: 17/06/1989

2 **Tipo de la formación:** Curso
Título de la formación: New Methods in the study of Transport across the cell membrane
Ciudad entidad titulación: Lanjarón, Andalucía, España
Entidad de titulación: Universidad de Málaga **Tipo de entidad:** Universidad
Fecha de finalización: 24/09/1988

3 **Tipo de la formación:** Curso
Título de la formación: Curso nacional de Fibroendoscopia digestiva veterinaria
Ciudad entidad titulación: Cáceres, Extremadura, España
Entidad de titulación: Facultad de Veterinaria **Tipo de entidad:** Centros y Estructuras Universitarios y Asimilados
Fecha de finalización: 21/06/1987

4 **Tipo de la formación:** Curso
Título de la formación: Seminario sobre las relaciones universidad-empresa y la comunidad europea
Ciudad entidad titulación: Alcántara, Extremadura, España
Entidad de titulación: Fundación San Benito de Alcántara **Tipo de entidad:** Asociaciones y Agrupaciones
Fecha de finalización: 27/04/1987

5 **Tipo de la formación:** Curso
Título de la formación: Encuentro Nacional sobre investigación de fármacos
Ciudad entidad titulación: Madrid, Comunidad de Madrid, España
Entidad de titulación: SOCIEDAD ESPAÑOLA DE QUIMICA TERAPEUTICA
Fecha de finalización: 14/12/1984

6 **Tipo de la formación:** Curso
Título de la formación: Jornadas sobre Evaluación de Impacto Ambiental
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Junta de Andalucía **Tipo de entidad:** Organismo público
Fecha de finalización: 29/06/1983

7 **Tipo de la formación:** Curso
Título de la formación: Jornadas sobre Medio Ambiente
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: CEOTMA-ALBE **Tipo de entidad:** Organismo Público de Investigación
Fecha de finalización: 05/10/1981

8 **Tipo de la formación:** Curso
Título de la formación: Curso de especialización en cromatografía
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: instituto de analítica instrumental **Tipo de entidad:** Instituto Universitario de Investigación
Fecha de finalización: 12/06/1981

9 **Tipo de la formación:** Curso
Título de la formación: Curso de resonancia magnética nuclear
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de finalización: 08/06/1981

10 **Tipo de la formación:** Curso
Título de la formación: Curso Análisis habilidades didácticas del profesor universitario
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de finalización: 30/05/1981

11 **Tipo de la formación:** Curso
Título de la formación: Curso de Radioquímica
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de finalización: 05/12/1980

12 **Tipo de la formación:** Curso
Título de la formación: Curso de introducción a la Ciencia y tecnología de Alimentos
Ciudad entidad titulación: Granada, Andalucía, España
Entidad de titulación: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de finalización: 01/04/1980

13 **Tipo de la formación:** Curso
Título de la formación: Sesiones de trabajo sobre farmacología de los receptores beta
Ciudad entidad titulación: Valencia, Comunidad Valenciana, España
Entidad de titulación: Universitat de València **Tipo de entidad:** Universidad
Fecha de finalización: 01/01/1977

Conocimiento de idiomas

Idioma	Habla	Lee	Escribe
Francés	Bien	Bien	Bien
Inglés	Bien	Bien	Bien

Actividad docente

Formación académica impartida

1 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Endocrinologia Molecular
Tipo de programa: Licenciatura **Tipo de docencia:** Prácticas de Laboratorio
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Bioquimica
Curso que se imparte: 5
Fecha de inicio: 30/09/2005 **Fecha de finalización :** 30/09/2013
Fecha de finalización: 30/09/2013
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiologia
Ciudad entidad realización: Cáceres, Extremadura, España

2 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Endocrinologia Molecular
Tipo de programa: Licenciatura **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Bioquimica
Curso que se imparte: 5

Fecha de inicio: 30/09/2005 **Fecha de finalización :** 30/09/2013
Fecha de finalización: 30/09/2013
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiologia
Ciudad entidad realización: Cáceres, Extremadura, España

3 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fundamentos de Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Prácticas de Laboratorio
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Bioquimica
Curso que se imparte: 4
Fecha de inicio: 30/09/2005 **Fecha de finalización :** 30/09/2013
Fecha de finalización: 30/09/2013
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiologia
Ciudad entidad realización: Cáceres, Extremadura, España

4 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fundamentos de Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Bioquimica
Curso que se imparte: 4
Fecha de inicio: 30/09/2005 **Fecha de finalización :** 30/09/2013
Fecha de finalización: 30/09/2013
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiologia
Ciudad entidad realización: Cáceres, Extremadura, España

5 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Prácticas de Laboratorio
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Veterinaria
Fecha de inicio: 30/09/1984 **Fecha de finalización :** 30/09/1999
Fecha de finalización: 30/09/1999
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiologia
Ciudad entidad realización: Cáceres, Extremadura, España

6 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Veterinaria
Curso que se imparte: 2

Fecha de inicio: 30/09/1984 **Fecha de finalización :** 30/09/1999
Fecha de finalización: 30/09/1999
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiologia
Ciudad entidad realización: Cáceres, Extremadura, España

7 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Cronobiología en Biología y Medicina
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Obligatoria
Titulación universitaria: Doctorado en Fisiología
Fecha de inicio: 30/09/1989 **Fecha de finalización :** 30/09/1991
Fecha de finalización: 30/09/1991 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 6
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

8 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fisiología gastrointestinal
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Obligatoria
Titulación universitaria: Doctorado en Fisiología
Fecha de inicio: 30/09/1989 **Fecha de finalización :** 30/09/1991
Fecha de finalización: 30/09/1991 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 6
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

9 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Cronofarmacología, cronotoxicología y cronoterapia
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Obligatoria
Titulación universitaria: Doctorado en Fisiología
Fecha de inicio: 30/09/1987 **Fecha de finalización :** 30/09/1990
Fecha de finalización: 30/09/1990 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 3
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

10 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Rimicidad en la función animal
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Obligatoria
Titulación universitaria: Doctorado en Fisiología

Fecha de inicio: 30/09/1986 **Fecha de finalización :** 30/09/1989
Fecha de finalización: 30/09/1989 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 3
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

11 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Cronobiología
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Obligatoria
Titulación universitaria: Doctorado en Fisiología
Fecha de inicio: 30/09/1984 **Fecha de finalización :** 30/09/1986
Fecha de finalización: 30/09/1986 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 3
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

12 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Simulación de procesos fisiológicos
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Optativa
Titulación universitaria: Doctorado en Fisiología
Fecha de inicio: 30/09/1984 **Fecha de finalización :** 30/09/1986
Fecha de finalización: 30/09/1986 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 2
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

13 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: evolución de las hormonas gastrointestinales
Tipo de programa: Doctorado/a **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Optativa
Titulación universitaria: Doctorado en Fisiología
Fecha de inicio: 30/09/1984 **Fecha de finalización :** 30/09/1986
Fecha de finalización: 30/09/1986 **Tipo de horas/créditos ECTS:** Créditos
Nº de horas/créditos ECTS: 2
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Veterinaria
Departamento: Fisiología
Ciudad entidad realización: Cáceres, Extremadura, España

14 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Bases fisiológicas de la nutrición
Tipo de programa: Diplomatura **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Troncal

Titulación universitaria: diplomado en Nutrición
Fecha de inicio: 30/09/1983 **Fecha de finalización :** 30/09/1984
Fecha de finalización: 30/09/1984
Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Farmacia
Departamento: Fisiologia
Ciudad entidad realización: Granada, Andalucía, España

15 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Bases fisiológicas de la nutrición
Tipo de programa: Diplomatura **Tipo de docencia:** Prácticas de Laboratorio
Tipo de asignatura: Troncal
Titulación universitaria: diplomado en Nutrición
Fecha de inicio: 30/09/1982 **Fecha de finalización :** 30/09/1984
Fecha de finalización: 30/09/1984
Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Farmacia
Departamento: Fisiologia
Ciudad entidad realización: Granada, Andalucía, España

16 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Farmacia
Fecha de inicio: 30/09/1981 **Fecha de finalización :** 30/09/1984
Fecha de finalización: 30/09/1984
Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Farmacia
Departamento: Fisiologia
Ciudad entidad realización: Granada, Andalucía, España

17 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Prácticas de Laboratorio
Tipo de asignatura: Troncal
Titulación universitaria: Licenciatura en Farmacia
Fecha de inicio: 30/09/1976 **Fecha de finalización :** 30/09/1984
Fecha de finalización: 30/09/1984
Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Farmacia
Departamento: Fisiologia
Ciudad entidad realización: Granada, Andalucía, España

18 **Tipo de docencia:** Docencia oficial
Nombre de la asignatura/curso: Fisiología
Tipo de programa: Licenciatura **Tipo de docencia:** Teórica presencial
Tipo de asignatura: Troncal
Titulación universitaria: Licenciado en Ciencias Biológicas Especialidad Biología Fundamental
Fecha de inicio: 30/09/1981 **Fecha de finalización :** 30/09/1982
Fecha de finalización: 30/09/1982

Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Facultad, instituto, centro: Facultad de Ciencias
Departamento: Fisiologia
Ciudad entidad realización: Granada, Andalucía, España

Dirección de tesis doctorales y/o proyectos fin de carrera

1 **Título del trabajo:** LAS PROTEINAS STIM1-ORAI1- TRPC Y LA AGREGACIÓN PLAQUETARIA EN DIABETES MELLITUS TIPO
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Juan Antonio Rosado Dionisio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Hanene Zbidi Polo
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 09/12/2011
Doctorado Europeo: No

2 **Título del trabajo:** Complejos STIM1-Orai1-TRPC en la entrada de Ca2+ en plaquetas humanas
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Juan Antonio Rosado Dionisio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Isaac Jardin Polo
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 30/11/2011
Doctorado Europeo: Si **Fecha de mención:** 30/11/2011

3 **Título del trabajo:** Implicaciones del metabolismo de fosfatidil colina en apoptosis inducida por ceramida
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Enrique Claro Izaguirre
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Belen Ramos Josemaria
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 01/01/2002

4 **Título del trabajo:** CONTRIBUCION AL ESTUDIO ZOOTECNICO DE LA CABRA RETINTA EXTREMEÑA
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Rafael Calero Carretero
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Maria Jesus Estevez Herrera
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 01/01/2001

5 **Título del trabajo:** Accidentes de trabajo agricola en la provincia de Cáceres
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Marcos Maynar
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad

Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Antonio José Moreno Gómez
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 01/01/2000

6 **Título del trabajo:** Implicaciones de la tirosina cinasa p125FAK en procesos de secreción pancreática
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Luis Jesus Garcia Marin
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Juan Antonio Rosado Dionisio
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 01/12/1997

7 **Título del trabajo:** INTERACCIONES ENTRE LAS PRINCIPALES VIAS DE ACOPLAMIENTO ESTIMULO SECRECION EN EL PANCREAS DE RATA
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Juan Antonio MAdrid Pérez
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Pedro Javier Camello Almaraz
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 01/01/1992

8 **Título del trabajo:** Cronobiología de las secreciones gástrica y pancreática en el perro
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Juan Antonio MAdrid Pérez
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Jose Maria Ariño Gil LLanos
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 01/01/1991

9 **Título del trabajo:** Efecto del flúor en la alimentación de corderos
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Julio Tovar
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Maria Antonia Chaso Criado
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 05/10/1990

10 **Título del trabajo:** Histamina y secreción exocrina del páncreas de conejo.
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Juan Antonio MAdrid Pérez
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Jose Antonio Pariente LLanos
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 04/12/1989

11 **Título del trabajo:** Fisiología de la vesícula biliar e índices litogénicos en perros tratados con pirenzepina
Tipo de proyecto: Tesis Doctoral
Codirector/a tesis: Juan Antonio Madrid Perez
Entidad de realización: Universidad de Salamanca **Tipo de entidad:** Universidad
Ciudad entidad realización: Salamanca, Castilla y León, España
Alumno/a: Maria Jose Pozo Andrada
Calificación obtenida: Sobresaliente cum laude
Fecha de defensa: 11/03/1989

12 **Título del trabajo:** Actividad ritmica de la vesicula biliar
Tipo de proyecto: Tesina
Codirector/a tesis: Juan Antonio MAdrid Pérez
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Alumno/a: Pedro Javier Camello Almaraz
Calificación obtenida: Sobresaliente
Fecha de defensa: 01/01/1988

13 **Título del trabajo:** Efectos de la pirenzepina y cimetidina sobre el aprovechamiento nutritivo de la grasa y proteina de la dieta
Tipo de proyecto: Tesina
Codirector/a tesis: Juan Antonio MAdrid Pérez
Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Ciudad entidad realización: Granada, Andalucía, España
Alumno/a: Purificación Muñoz Arrebola
Calificación obtenida: Sobresaliente
Fecha de defensa: 01/01/1983

Publicaciones docentes o de carácter pedagógico, libros, artículos, etc.

1 Alejandro Rafael Berna Erro; Jose Javier Lopez Barba; Pedro Cosme Redondo Liberal; Gines Maria Salido Ruiz; Juan Antonio Rosado Dionisio. La creciente presencia del calcio intracelular en los estudios sobre el cáncer. Fisiología. 15 - 1, pp. 16 - 21. Galicia (España): Sociedad Española de Ciencias Fisiológicas, 01/01/2012. Disponible en Internet en: <http://www.secf.es/index.php/es/publicaciones/revistafisiologia>. ISSN 1889-397X
Depósito legal: SE-321-2000
Nombre del material: Articulo docente
Perfil de destinatarios/as: Estudiantes y profesionales de Fisiología
Fecha de elaboración: 01/01/2012
Tipo de soporte: Artículo/s
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Justificación del material: Elaboración de material docente para estudiantes y profesores de Fisiología

2 Juan Antonio Rosado Dionisio; Antonio Gonzalez Mateos; Gines Maria Salido Ruiz; Jose Antonio Pariente Llanos. Homeostasis del ión calcio en células no excitables. Papel de las especies reactivas de oxígeno. Fisiología. 8, pp. 15 - 18. Castilla y León (España): Sociedad Española de Ciencias Fisiológicas, 01/01/2006. Disponible en Internet en: <http://www.secf.es/index.php/es/publicaciones/revistafisiologia>. ISSN 1889-397X
Depósito legal: SE-321-2000
Nombre del material: Articulo docente
Perfil de destinatarios/as: Estudiantes y profesionales de Fisiología
Fecha de elaboración: 01/01/2006

Tipo de soporte: Artículo/s
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Justificación del material: Elaboración de material docente para estudiantes y profesores de Fisiología

Experiencia científica y tecnológica

Grupos/equipos de investigación, desarrollo o innovación

Nombre del grupo: FISIOLOGIA CELULAR
Objeto del grupo: ESTUDIO DE LAS BASES FISIOLOGICAS DE LOS PROCESOS CELULARES
Nombre del investigador/a principal (IP): GINES MARIA SALIDO RUIZ
Nº de componentes grupo: 10
Clase de colaboración: Coautoría de proyectos y de su desarrollo
Ciudad de radicación: CACERES, Extremadura, España
Entidad de afiliación: Universidad de Extremadura
Tipo de entidad: Universidad
Fecha de inicio: 01/01/2005
Duración: 7 años

Actividad científica o tecnológica

Proyectos de I+D+i financiados en convocatorias competitivas de Administraciones o entidades públicas y privadas

1 **Nombre del proyecto:** Estudio de la interrelación de los canales capacitativos formados por Orai y TRPC, sus caracteristicas funcionales y su relevancia en la fisiopatología del cáncer de mama
Identificar palabras clave: Biomedicina
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 10
Entidad/es financiadora/s:
Junta de Extremadura
Tipo de entidad: Organismo Público de Investigación
Ciudad entidad financiadora: Cáceres, Extremadura, España

Tipo de participación: Colaborador
Cód. según financiadora: IB16046
Fecha de inicio-fin: 01/06/2017 - 31/05/2020
Duración: 3 años
Cuantía total: 149.988,3
Cuantía subproyecto: 149.988,3
Régimen de dedicación: Tiempo parcial

2 **Nombre del proyecto:** Implicación de las células estrelladas del páncreas en las patologías que afectan a la glándula. Efectos de la melatonina.
Identificar palabras clave: Biomedicina

Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Antonio Gonzalez
Nº de investigadores/as: 6
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público de Investigación
Ciudad entidad financiadora: Cáceres, Extremadura, España

Tipo de participación: Colaborador
Cód. según financiadora: IB16006
Fecha de inicio-fin: 01/06/2017 - 31/05/2020 **Duración:** 3 años
Cuantía total: 132.972,4 **Cuantía subproyecto:** 132.972,4
Régimen de dedicación: Tiempo parcial

3 **Nombre del proyecto:** Remodelado de la entrada de calcio en el cancer de mama
Identificar palabras clave: Biomedicina
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 8
Entidad/es financiadora/s:
Ministerio de Economía, Industria y Competitividad **Tipo de entidad:** Agencia Estatal
Ciudad entidad financiadora: Madrid, Comunidad de Madrid, España

Tipo de participación: Colaborador
Cód. según financiadora: BFU2016-74932-C2-1-P
Fecha de inicio-fin: 01/01/2017 - 31/12/2019 **Duración:** 3 años
Cuantía total: 278.300 **Cuantía subproyecto:** 278.300
Régimen de dedicación: Tiempo parcial

4 **Nombre del proyecto:** Caracterización de los efectos de la melatonina sobre la fisiología de las células estrelladas del páncreas: un estudio de fibrosis pancreática
Identificar palabras clave: Biomedicina
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Antonio Gonzalez
Nº de investigadores/as: 6
Entidad/es financiadora/s:
Ministerio de Economía, Industria y Competitividad **Tipo de entidad:** Agencia Estatal
Ciudad entidad financiadora: Madrid, Comunidad de Madrid, España

Tipo de participación: Colaborador
Cód. según financiadora: BFU2016-79259-R
Fecha de inicio-fin: 01/01/2017 - 31/12/2019 **Duración:** 3 años
Cuantía total: 133.100 **Cuantía subproyecto:** 133.100
Régimen de dedicación: Tiempo parcial

5 **Nombre del proyecto:** Introducción de la tecnología del semen sexado en las yeguadas extremeñas
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 10 **Nº de personas/año:** 8
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 11/08/2011 - 11/08/2014 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

6 **Nombre del proyecto:** Regulación de la entrada de calcio por STIM, Orai y proteínas TRPC en células no excitables
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 6 **Nº de personas/año:** 6
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2010 - 31/12/2013 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

7 **Nombre del proyecto:** Estudio del valor diagnóstico de la homocisteinemia en la disfunción plaquetaria y las alteraciones vasculares asociadas en pacientes con diabetes mellitus tipo 2. Efecto profiláctico y terapéutico del antioxidante natural cinnamtanina B-1 (2).
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 11 **Nº de personas/año:** 11
Entidad/es financiadora/s:

MINISTERIO DE ASUNTOS EXTERIORES
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2010 - 31/12/2011 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

8 **Nombre del proyecto:** Estudio del valor diagnóstico de la homocisteinemia en la disfunción plaquetaria y las alteraciones vasculares asociadas en pacientes con diabetes mellitus tipo 2. Efecto profiláctico y terapéutico del antioxidante natural cinnamtanina B-1.
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 11 **Nº de personas/año:** 11
Entidad/es financiadora/s:
MINISTERIO DE ASUNTOS EXTERIORES
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2009 - 31/12/2010 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

9 **Nombre del proyecto:** Evaluación de la actividad antioxidante y capacidad de inhibición de la agregación plaquetaria de antioxidantes aislados de Laurus nobilis L. (laurel) y de una colección de análogos estructurales de antioxidantes naturales
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Jaén **Tipo de entidad:** Universidad
Ciudad entidad realización: Jaen, Andalucía, España
Nº de investigadores/as: 7 **Nº de personas/año:** 7
Entidad/es financiadora/s:
Universidad de Jaén **Tipo de entidad:** Universidad
Ciudad entidad financiadora: Jaén, Andalucía, España

Fecha de inicio-fin: 01/01/2009 - 31/12/2010 **Duración:** 2 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

10 **Nombre del proyecto:** Ayuda para la consolidación y apoyo a los grupos de investigación inscritos en el Catálogo de Grupos de Investigación de Extremadura 2009
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 10 **Nº de personas/año:** 10

Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2009 - 31/12/2009 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

11 **Nombre del proyecto:** Acoplamiento conformacional de novo y entrada capacitativa de calcio en células no excitables nucleadas y anucleadas
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 6 **Nº de personas/año:** 6
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2007 - 31/12/2009 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

12 **Nombre del proyecto:** Ayuda para la consolidación y apoyo a los grupos de investigación inscritos en el Catálogo de Grupos de Investigación de Extremadura 2007
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 8 **Nº de personas/año:** 8
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2008 - 31/12/2008 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

13 **Nombre del proyecto:** Caracterización de los efectos de plantas medicinales en la función plaquetaria II
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:

MINISTERIO DE ASUNTOS EXTERIORES
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2008 - 31/12/2008 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

14 **Nombre del proyecto:** Estudio del efecto protector de los antioxidantes naturales proantocianidina y cicloolivil en el desarrollo de alteraciones plaquetarias en la diabetes mellitus tipo 2 II.
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 11 **Nº de personas/año:** 11
Entidad/es financiadora/s:
MINISTERIO DE ASUNTOS EXTERIORES
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2008 - 31/12/2008 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

15 **Nombre del proyecto:** Ayuda para la consolidación y apoyo a los grupos de investigación inscritos en el Catálogo de Grupos de Investigación de Extremadura 2006
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 8 **Nº de personas/año:** 8
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2007 - 31/12/2007 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

16 **Nombre del proyecto:** Caracterización de los efectos de plantas medicinales en la función plaquetaria
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 4 **Nº de personas/año:** 4
Entidad/es financiadora/s:
MINISTERIO DE ASUNTOS EXTERIORES

Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2007 - 31/12/2007 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

17 **Nombre del proyecto:** Estudio del efecto protector de los antioxidantes naturales proantocianidina y cicloolivil en el desarrollo de alteraciones plaquetarias en la diabetes mellitus tipo 2
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 9 **Nº de personas/año:** 9
Entidad/es financiadora/s:
MINISTERIO DE ASUNTOS EXTERIORES
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2007 - 31/12/2007 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

18 **Nombre del proyecto:** Homeostasis del Ca2+ en un modelo experimental de pancreatitis alcohólica
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Pariente
Nº de investigadores/as: 4 **Nº de personas/año:** 4
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2004 - 31/12/2007 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

19 **Nombre del proyecto:** Participación del citoesqueleto de actina y proteínas asociadas en la regulación del proceso de entrada capacitativa de calcio. Implicación en el desarrollo de complicaciones vasculares en la diabetes mellitus II
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 7 **Nº de personas/año:** 7
Entidad/es financiadora/s:
MINISTERIO DE ASUNTOS EXTERIORES

Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2006 - 31/12/2006 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

20 **Nombre del proyecto:** ADP ribosa cíclica y NAADP como señalizadores de depósitos intracelulares de calcio. Nuevos aspectos funcionales de la señal de calcio en el músculo liso vesicular
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Maria Jose Pozo
Nº de investigadores/as: 7 **Nº de personas/año:** 7
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2004 - 31/12/2006 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

21 **Nombre del proyecto:** Relación entre la señal de calcio, especies reactivas de oxígeno y apoptosis en células no excitables
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Jose Antonio Pariente
Nº de investigadores/as: 9 **Nº de personas/año:** 6
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2004 - 31/12/2006 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

22 **Nombre del proyecto:** Formación e investigación de diabetes mellitus tipo 2 en Túnez".
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 2 **Nº de personas/año:** 2
Entidad/es financiadora/s:
Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad financiadora: Badajoz, Extremadura, España

Fecha de inicio-fin: 01/01/2005 - 31/12/2005 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

23 **Nombre del proyecto:** Participación del citoesqueleto de actina y proteínas asociadas en la regulación del proceso de entrada capacitativa de calcio. Implicación en el desarrollo de complicaciones vasculares en la diabetes mellitus II
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Internacional no UE
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Rosado
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
MINISTERIO DE ASUNTOS EXTERIORES
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2005 - 31/12/2005 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

24 **Nombre del proyecto:** Agentes oxidantes y homeostasis del ión calcio en dos modelos celulares no excitables; acinos pancreáticos y plaquetas. Implicaciones del citoesqueleto
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Jose Antonio Pariente
Nº de investigadores/as: 6 **Nº de personas/año:** 6
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2001 - 31/12/2003 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

25 **Nombre del proyecto:** Vías alternativas a la clásica” entrada capacitativa de calcio. Papel en la colecistitis aguda
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Maria Jose Pozo
Nº de investigadores/as: 7 **Nº de personas/año:** 6
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA

Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2001 - 31/12/2003 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

26 **Nombre del proyecto:** El oxido nítrico como regulador de la motilidad de la vesícula biliar: Influencia del estado redox
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Maria Jose Pozo
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/2000 - 31/12/2000 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

27 **Nombre del proyecto:** Estrés oxidativo en dos modelos celulares: células secretoras y contráctiles
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 8 **Nº de personas/año:** 8
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1998 - 31/12/2000 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

28 **Nombre del proyecto:** Agentes oxidantes y metabolismo del calcio en células acinares pancreáticas: Aproximación a un nuevo tratamiento en pancreatitis
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Jose Antonio Pariente
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1999 - 31/12/1999 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

29 **Nombre del proyecto:** Fosforilación en residuos de tirosina de las proteínas asociadas a placas de adhesión focal.
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Campo
Nº de investigadores/as: 5 **Nº de personas/año:** 7
Entidad/es financiadora/s:
Junta de Extremadura **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1997 - 31/12/1997 **Duración:** 1 año
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

30 **Nombre del proyecto:** Vía de la tirosina cinasa en el páncreas exocrino. Relación con otros mensajeros intracelulares.
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Campo
Nº de investigadores/as: 7 **Nº de personas/año:** 7
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1995 - 31/12/1997 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

31 **Nombre del proyecto:** Aportaciones al conocimiento de los parámetros normales (histológicos, bioquímicos y fisiológicos) y de los procesos morbosos de la tenca
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Diputación de Cáceres **Tipo de entidad:** Organismo Público
Ciudad entidad financiadora: Cáceres, Extremadura, España

Fecha de inicio-fin: 01/01/1985 - 31/12/1996 **Duración:** 2 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

32 **Nombre del proyecto:** Effects of histamine and related agonists and antagonists on the guinea-pig exocrine pancreas
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Unión Europea
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 10 **Nº de personas/año:** 10
Entidad/es financiadora/s:
The Wellcome Trust **Tipo de entidad:** Agencia Estatal
Ciudad entidad financiadora: Reino Unido

Fecha de inicio-fin: 01/01/1991 - 31/12/1993 **Duración:** 3 años
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

33 **Nombre del proyecto:** Efectos de los ésteres de forbol y diacilglicerol en la secreción pancreática exocrina promovida por secretagogos
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 6 **Nº de personas/año:** 6
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1991 - 31/12/1991 **Duración:** 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

34 **Nombre del proyecto:** Efectos secretagogos de los ésteres de forbol en el páncreas de rata
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA

Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1990 - 31/12/1991 **Duración:** 2 años
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

35 **Nombre del proyecto:** Caracterizació circadiana de los enzimas implicados en el ciclo de la urea
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1990 - 31/12/1990 **Duración:** 1 mes

36 **Nombre del proyecto:** Secreción de jugo pancreático en rata anestesiada y en páncreas intacto de rata. Interacción entre ésteres de forbol y secretagogos
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1990 - 31/12/1990 **Duración:** 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

37 **Nombre del proyecto:** Desarrollo inmune de la tenca: Influencias fisiológicas y medioambientales
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Autonómica
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad financiadora: Badajoz, Extremadura, España

Junta de Extremadura **Tipo de entidad:** Público
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1989 - 31/12/1990 **Duración:** 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

38 **Nombre del proyecto:** Efectos de esteroides sexuales femeninos sobre la motilidad de la vesícula biliar del cobaya
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Juan Antonio Madrid
Nº de investigadores/as: 3 **Nº de personas/año:** 3
Entidad/es financiadora/s:
MINISTERIO DE EDUCACION Y CIENCIA
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1988 - 31/12/1988 **Duración:** 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

39 **Nombre del proyecto:** Estudio de la biodisponibilidad del fluor dietario de la sepiolita en corderos en crecimiento
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Cáceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Tolsa, S.A. **Tipo de entidad:** Entidad Empresarial
Ciudad entidad financiadora: Madrid, Comunidad de Madrid, España

Tipo de participación: Coordinador
Fecha de inicio-fin: 01/01/1988 - 31/12/1988 **Duración:** 1 año

40 **Nombre del proyecto:** Análisis continúo de las respuestas secretoras gastrointestinales en animal anestesiado.
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 4 **Nº de personas/año:** 4

Entidad/es financiadora/s:
Comisión Asesora de Investigación Científica Secretaría de Estado de Universidades e Investigacióny Técnica
Tipo de entidad: Agencia Estatal
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1987 - 31/12/1987
Duración: 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

41 **Nombre del proyecto:** Mecanismo de acción de la pirenzepina sobre la vesícula biliar
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 3
Nº de personas/año: 3
Entidad/es financiadora/s:
Comisión Asesora de Investigación Científica y Técnica
Tipo de entidad: Organismo Público de Investigación
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1986 - 31/12/1986
Duración: 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

42 **Nombre del proyecto:** Incidencias nutricionales de fármacos antiulcerosos.
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Francisco Jose Matiax
Nº de investigadores/as: 5
Nº de personas/año: 5
Entidad/es financiadora/s:
Fondo de Investigaciones Sanitarias de la Seguridad Social
Tipo de entidad: Organismo Público de Investigación

Fecha de inicio-fin: 01/01/1985 - 31/12/1986
Duración: 2 años
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

43 **Nombre del proyecto:** Estudio de la lactancia artificial en el ganado cabrío: bases fisiológicas y zootécnicas
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.).
Ámbito geográfico: Nacional
Grado de contribución: Investigador/a

Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Francisco Jose Matiax
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Comisión Asesora de Investigación Científica y Técnica **Tipo de entidad:** Organismo Público de Investigación
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1982 - 31/12/1986 **Duración:** 4 años
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

44 **Nombre del proyecto:** Mecanismo de acción de la pirenzepina sobre la vesícula biliar
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Coordinador del proyecto total, red o consorcio
Entidad de realización: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad realización: Caceres, Extremadura, España
Nombres investigadores principales (IP, Co-IP,...): Gines Maria Salido
Nº de investigadores/as: 3 **Nº de personas/año:** 3
Entidad/es financiadora/s:
Comisión Asesora de Investigación Científica y Técnica **Tipo de entidad:** Organismo Público de Investigación
Ciudad entidad financiadora: España

Fecha de inicio-fin: 01/01/1985 - 31/12/1985 **Duración:** 1 año
Régimen de dedicación: Tiempo completo
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

45 **Nombre del proyecto:** Fisiología de las secreciones digestivas
Modalidad de proyecto: De investigación fundamental (incluyendo excavaciones arqueológicas, etc.). **Ámbito geográfico:** Nacional
Grado de contribución: Investigador/a
Entidad de realización: Universidad de Granada **Tipo de entidad:** Universidad
Ciudad entidad realización: Granada, Andalucía, España
Nombres investigadores principales (IP, Co-IP,...): Maria Abdona Lopez
Nº de investigadores/as: 5 **Nº de personas/año:** 5
Entidad/es financiadora/s:
Fondo nacional para el desarrollo de la investigación científica y técnica de la presidencia de gobierno

Fecha de inicio-fin: 01/01/1976 - 31/12/1978 **Duración:** 3 años
Aportación del solicitante: I carried out the experiments, participated in discussion and drafted of manuscripts published and supported by this project.

Resultados

Propiedad industrial e intelectual

Título propiedad industrial registrada: Procedimiento para la elución, separación e identificación de proteínas y aparato para realizarlo
Tipo de propiedad industrial: Patente de invención
Inventores/autores/obtentores: Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo
Entidad titular de derechos: Universidad de Extremadura
Nº de solicitud: P200802554
País de inscripción: España
Fecha de registro: 04/09/2008
Fecha de concesión: 18/01/2011

Actividades científicas y tecnológicas

Producción científica

Índice H: 35
Fecha de aplicación: 09/04/2018

Publicaciones, documentos científicos y técnicos

1 Alejandro Berna Erro; Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. Role of STIM2 in cell function and physiopathology.Journal of Physiology. 595 - 10, pp. 3111 - 3128. (Reino Unido): The Physiological Society, 2017.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 4.739
Revista dentro del 25%: Si
Posición de publicación: 50
Num. revistas en cat.: 259

2 Isaac Jardin; Jose Javier Lopez; Raquel Diez Bello; Jose Sanchez Collado; Carlos Cantonero; Letizia Albarran; Geoffrey Woodard; Pedro Cosme Redondo; Gines Maria Salido; Tarik Smani; Juan Antonio Rosado. TRPs in Pain Sensation.Frontiers in Physiology. 8, pp. 392. (Suiza): Frontiers, 2017.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 9
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 4.134
Revista dentro del 25%: Si
Posición de publicación: 15
Num. revistas en cat.: 84

3 Jose Javier Lopez; Gines Maria SALIDO; Juan Antonio Rosado. Cardiovascular and Hemostatic Disorders: SOCE and Ca2+ Handling in Platelet Dysfunction.Store-operated Ca2+ entry (SOCE) pathways. 993, pp. 453 - 472. (Estados Unidos de América): Springer, 2017. ISBN 978-3-319-57731-9

Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de capítulo de libro
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOLOGY
Índice de impacto: 1.937
Revista dentro del 25%: No
Posición de publicación: 33
Num. revistas en cat.: 85

4 Juan Antonio Rosado; Raquel Diez Bello; Gines Maria Salido; Isaac Jardin. Fine-tuning of microRNAs in type 2 diabetes mellitus.Current Medicinal Chemistry. doi: 10.2174/0929867325666171205163944, (Estados Unidos de América): Bentham Sciences, 2017.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CHEMISTRY, MEDICINAL
Índice de impacto: 3.249
Revista dentro del 25%: No
Posición de publicación: 16
Num. revistas en cat.: 60

5 Letizia Albarran; Sergio Regodon Mena; Gines Maria Salido; Jose Javier Lopez; Juan Antonio Rosado. Role of STIM1 in the surface expression of SARAF.Channels. 11, pp. 84 - 88. (Reino Unido): Taylor & Francis, 2017.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 2.042
Revista dentro del 25%: No
Posición de publicación: 209
Num. revistas en cat.: 290

6 Raquel Diez Bello; Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. Orai1 and Orai2 mediate store-operated calcium entry that regulates HL60 cell migration and FAK phosphorylation.Biochimica et Biophysica Acta. 1864, pp. 1064 - 1070. (Estados Unidos de América): Elsevier, 2017.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.521
Revista dentro del 25%: Si
Posición de publicación: 61
Num. revistas en cat.: 290

7 Letizia Albarran; Jose Javier Lopez Barba; Luis J Gómez; Gines Maria Salido; Juan Antonio Rosado. SARAF modulates TRPC1, but not TRPC6, channel function in a STIM1-independent manner. Biochemical Journal. 473 - 20, pp. 3581 - 3595. (Reino Unido): Portland Press, 15/10/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 3.797
Revista dentro del 25%: No
Posición de publicación: 89
Num. revistas en cat.: 286

8 Ines M. Aparicio; Javier Espino; Ignacio Bejarano; A Gallardo Soler; ML Campo; Ginés María Salido; José A Pariente; Fernando J. Peña; José Antonio Tapia. Autophagy-related proteins are functionally active in human spermatozoa and may be involved in the regulation of cell survival and motility. Scientific Reports. 6 - 33647, (Estados Unidos de América): Nature Publishing Group, 16/09/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - MULTIDISCIPLINARY SCIENCES
Índice de impacto: 4.259
Revista dentro del 25%: Si
Posición de publicación: 10
Num. revistas en cat.: 64

9 Jose Javier Lopez; Leticia Albarran; Luis Gomez; Tarik Smani; Gines Maria Salido; Juan Antonio Rosado. Molecular modulators of store-operated calcium entry. Biochimica et Biophysica Acta-Molecular Cell Research. 1863 - 8, pp. 2037 - 2043. (Estados Unidos de América): Elsevier, 01/08/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.521
Revista dentro del 25%: Si
Posición de publicación: 61
Num. revistas en cat.: 290

10 Patricia SANTOFIMIA; Gines Maria Salido; Antonio Gonzalez. interferences of resveratrol with fura-2-derived fluorescence in intracellular free-Ca2+ concentration determinations. Cytotechnology. 68 - 4, pp. 1369 - 1380. (Estados Unidos de América): Springer, 01/08/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Índice de impacto: 1.857
Revista dentro del 25%: No
Posición de publicación: 90
Num. revistas en cat.: 160

11 Ines M. Aparicio; P Martín Muñoz; Gines Maria Salido; Fernando J. Peña; José Antonio Tapia. The autophagy-related protein LC3 is processed in stallion spermatozoa during shortand long-term storage and the related stressful conditions. Animal. 10 - 7, pp. 1182 - 1191. (Reino Unido): The Animal Consortium, 01/07/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE
Índice de impacto: 1.921
Revista dentro del 25%: Si
Posición de publicación: 5
Num. revistas en cat.: 58

12 Patricia SANTOFIMIA; A Izquierdo Alvarez; I de la Casa Resino; A Martinez Ruiz; M Perez Lopez; JC Portilla; Gines Maria Salido; Antonio Gonzalez. Ebselen alters cellular oxidative status and induces endoplasmic reticulum stress in rat hippocampal astrocytes. Toxicology. 357, pp. 74 - 84. (Estados Unidos de América): Elsevier, 16/05/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7

Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 3.582
Revista dentro del 25%: Si
Posición de publicación: 58
Num. revistas en cat.: 257

13 Letizia Albarran; Jose Javier Lopez; Nidhal Ben Amor; Francisco E Martin Cano; Alejandro Berna Erro; Tarik Smani; Gines Maria Salido; Juan Antonio Rosado. Dynamic interaction of SARAF with STIM1 and Orai1 to modulate store-operated calcium entry. Scientific Reports. 6 - 24452, Nature Publishing Group, 12/04/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7

Fuente de impacto: WOS (JCR)
Categoría: Multidisciplinary
Índice de impacto: 4,259
Revista dentro del 25%: Si
Posición de publicación: 10
Num. revistas en cat.: 64

14 Letizia Albarran; Jose Javier Lopez; Geoffrey Woodard; Gines Maria Salido; Juan Antonio Rosado. Store-operated Ca2+ entry-associated regulatory factor (SARAF) plays an important role in the regulation of arachidonate-regulated Ca2+ (ARC) channels. Journal of Biological Chemistry. 291 - 13, pp. 6982 - 6988. American Society for Biochemistry and Molecular Biology, 25/03/2016.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4,125
Revista dentro del 25%: No
Posición de publicación: 74
Num. revistas en cat.: 290

15 Letizia Albarran; Jose Javier Lopez; Gines Maria Salido; Juan Antonio Rosado. Historical Overview of Store-Operated Ca(2+) Entry.Calcium entry pathways in non-excitable cells. 898, pp. 3 - 24. (Estados Unidos de América): Springer, 2016. ISBN 978-3-319-26972-6

Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de capítulo de libro

16 Geoffrey Woodard; Isaac Jardin; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado. Regulators of G-protein-signaling proteins: Negative Modulators of G-protein-coupled receptor signaling. International Review of Cell and Molecular Biology. 317, pp. 97 - 183. (Estados Unidos de América): Elsevier, 2015. ISBN 978-0-12-815195-2

Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 4

17 Esther Lopez; Nuria Bermejo; Alejandro Berna Erro; Nieves Alonso; Gines Maria Salido; Pedro Cosme Redondo; Juan Antonio Rosado. Relationship between calcium mobilization and platelet alpha- and delta- granule secretion. A role for TRPC6 in throbin-evoked delta-granule exocytosis. Archives of Biochemistry and Biophysics. 585, pp. 75 - 81. Elsevier, 2015.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 2.807
Revista dentro del 25%: No
Posición de publicación: 137
Num. revistas en cat.: 289

18 Esther López; Maria del Carmen Ortega Liebana; Sofia Salido; Gines Maria Salido; Joaquin Altarejos; Juan Antonio Rosado; Pedro Cosme Redondo. Evaluation of the antiaggregant activity of ascorbyl phenolic esters with antioxidant properties. Journal of Physiology and Biochemistry. 71, pp. 415 - 434. Springer, 2015.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 2.054
Revista dentro del 25%: No
Posición de publicación: 201
Num. revistas en cat.: 289

19 Esther Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. FKBP25 and FKPB38 regulate non-capacitative calcium entry through TRPC6. Biochimica et Biophysica Acta. 1853, pp. 2684 - 2696. Elsevier, 2015.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.128
Revista dentro del 25%: Si
Posición de publicación: 50
Num. revistas en cat.: 289

20 Natalia Dionisio; Tarik Smani; Geoffrey Woodard; Antonio Castellano; Gines Maria Salido; Juan Antonio Rosado. Homer proteins mediate the interaction between STIM1 and Cav1.2 channels. Biochimica et Biophysica Acta. 1853, pp. 1145 - 1153. Springer, 2015.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.128
Revista dentro del 25%: Si
Posición de publicación: 50
Num. revistas en cat.: 289

21 Patricia Santofimia Castaño; Lourdes Garcia Sanchez; Deborah Clea Ruy; Beatriz Sanchez Correa; Miguel Fernandez Bermejo; Raquel Tarazona Lafarga; Gines Maria Salido; Antonio Gonzalez. Melatonin induces calcium mobilization and influences cell proliferation independently of MT1/MT2 receptor activation in rat pancreatic stellate cells. Cell Biology and Toxicology. 31, pp. 95 - 110. Springer, 2015.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7
Fuente de impacto: WOS (JCR)
Categoría: Cell Biology
Índice de impacto: 2,842
Revista dentro del 25%: No
Posición de publicación: 105
Num. revistas en cat.: 187

22 Patricia Santofimia Castaño; Deborah Clea Ruy; Lourdes Garcia Sanchez; Daniel Jimenez Blasco; Miguel Fernandez Bermejo; Juan Pedro Bolaños; Gines Maria Salido; Antonio Gonzalez. Melatonin induces the expression of Nrf2-regulated antioxidant enzymes via PKC and Ca2+ influx activation in mouse pancreatic acinar cells. Free Radical Biology and Medicine. 87, pp. 226 - 236. Elsevier, 2015.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - ENDOCRINOLOGY & METABOLISM
Índice de impacto: 5.784
Revista dentro del 25%: Si

Posición de publicación: 14 **Num. revistas en cat.:** 133

23 Pharmacological dose of melatonin reduces cytosolic calcium load in response to cholecystokinin in mouse pancreatic acinar cells. Molecular and Cellular Biochemistry. 397 - 1-2, pp. 75 - 86. Springer, 2014.
Tipo de producción: Artículo **Tipo de soporte:** Revista

24 STIM1 regulates TRPC6 heteromultimerization and subcellular location. Biochemical Journal. 463, pp. 373 - 381. Biochemical Society, 2014.
Tipo de producción: Artículo **Tipo de soporte:** Revista

25 TRPC6 participates in the regulation of cytosolic basal calcium concentration in murine resting platelets. Biochimica et Biophysica Acta-Molecular Cell Research. 1843 - 4, pp. 789 - 796. Elsevier, 2014.
Tipo de producción: Artículo **Tipo de soporte:** Revista

26 The canonical transient receptor potential 6 (TRPC6) channel is sensitive toextracellular pH in mouse platelets. Blood Cells, Molecules and Diseases. 52 - 2-3, pp. 108 - 115. Elsevier, 2014.
Tipo de producción: Artículo **Tipo de soporte:** Revista

27 The seleno-organic compound ebselen impairs mitochondrial physiology and induces cell death in AR42J cells. Toxicology Letters. 229 - 3, pp. 465 - 473. Elsevier, 2014.
Tipo de producción: Artículo **Tipo de soporte:** Revista

28 Identification of apoptotic bodies in equine semen. Reproduction in Domestic Animals. 49 - 2, pp. 254 - 262. Blackwell Verlag GmbH, 2014.
Tipo de producción: Artículo **Tipo de soporte:** Revista

29 Patricia Santofimia-Castaño; Gines M. Salido; Antonio Gonzalez. Ebselen alters mitochondrial physiology and reduces viability of rat hippocampal astrocytes. DNA and Cell Biology. 32 - 4, pp. 1 - 9. Mary Ann Liebert, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

30 Letizia Albarran; Natalia Dionisio; Esther Lopez; Gines M. Salido; Juan A. Rosado. The membrane potential modulates thrombin-stimulated Ca2+ mobilization and platelet aggregation. Archives of Biochemistry and Biophysics. 538, pp. 130 - 137. Elsevier, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

31 Isaac Jardin; Natalia Dionisio; Irene Frischauf; Alejandro Berna-Erro; Geoffrey E. Woodard; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. The polybasic lysine-rich domain of plasma membrane-resident STIM1 is essential for the modulation of store-operated divalent cation entry by extracellular calcium. Cellular Signalling. 25, pp. 1328 - 1337. Elsevier, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

32 Letizia Albarran; Jose J. Lopez; Natalia Dionisio; Tarik Smani; Gines M. Salido; Juan A. Rosado. Transient receptor potential ankryn-1 (TRPA1) modulates store-operated Ca2+ entry by regulation od STIM1-Orai1 association. Biochimica et Biophysica Acta. 1833, pp. 3025 - 3034. Elsevier, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

33 Isaac Jardin; Natalia Dionisio; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Pharmacology of TRP Channels in the vasculature. Current Vascular Pharmacology. 11, pp. 480 - 489. Bentham Science Publishers, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

34 Esther Lopez; Alejandro Berna-Erro; Gines M. Salido; Juan A. Rosado; Pedro C. Redondo. FKBP52 is involved in the regulation of SOCE channels in the human platelets and MEG01 cells. BIOCHIMICA ET BIOPHYSICA ACTA. 1833, pp. 652 - 662. Elsevier, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

35 Isaac Jardin; Jose J. Lopez; Alejandro Berna-Erro; Gines M. Salido; Juan A. Rosado. Homer proteins in Ca2+ entry. IUBMB Life. 65 - 6, pp. 497 - 504. Wiley, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

36 Esther Lopez; Alejandro Berna-Erro; Nuria Bermejo; Jose Maria Brull; Rocio Martinez; Guadalupe Garcia Pino; Raul Alvarado; Gines Maria Salido; Juan Antonio Rosado; Juan Jose Cubero; Pedro C. Redondo. Long-term mTOR inhibitors administration evokes altered calcium homeostasis and platelet dysfunction in kidney transplant patients. Journal of Cellular and Molecular Medicine. 17 - 5, pp. 636 - 647. Blackwell, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

37 Esther Lopez; Alejandro Berna-Erro; Juan M. Hernandez-Cruz; Gines M. Salido; Pedro C. Redondo; Juan A. Rosado. Immunophilins are involved in the altered platelet aggregation observed in patients with type 2 diabetes mellitus. Current Medicinal Chemistry. 20, pp. 1912 - 1921. Bentham Science publishers, 01/01/2013.
Tipo de producción: Artículo **Tipo de soporte:** Revista

38 Jose Javier Lopez; Natalia Dionisio; Alejandro Berna Erro; Carmen Galan; Gines Maria Salido; Juan Antonio Pariente. Two-pore channel 2 (TPC2) modulates store-operated Ca(2+) entry. CELL RESEARCH. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1823 - 10, pp. 1976 - 1983. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/10/2012. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488912002261>. ISSN 0167-4889
Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 5 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.538 **Revista dentro del 25%:** Si
Posición de publicación: 45 **Num. revistas en cat.:** 45
Fuente de citas: WOS **Citas:** 0

Resultados relevantes: Two-pore channels (TPCs) are NAADP-sensitive receptor channels that conduct Ca(2+) efflux from the intracellular stores. Discharge of the internal Ca(2+) pools results in the activation of store-operated Ca(2+) entry (SOCE); however, the role of TPCs in the modulation of SOCE remains unexplored. Mammalian cells express three TPCs: TPC1, TPC2 and TPC3, a pseudogene in humans. Here we report that MEG01 and HEK293 cells endogenously express TPC1 and TPC2. Silencing TPC2 expression results in attenuation of the rate and extent of thapsigargin (TG)-evoked SOCE both in MEG01 and HEK293 cells, without having any effect on the ability of cells to accumulate Ca(2+) into the TG-sensitive stores. Similarly, silencing of native TPC2 expression reduced thrombin-induced Ca(2+) entry in MEG01 cells. In contrast, silencing of TPC1 expression was without effect either on TG or thrombin-stimulated Ca(2+) entry both in MEG01 and HEK293 cells. Biotinylation analysis revealed that TPC1 and TPC2 are expressed in internal membranes. Finally, co-immunoprecipitation experiments indicated that endogenously expressed TPC2, but not TPC1, associates with STIM1 and Orai1, but not with TRPC1, in MEG01 cells with depleted intracellular Ca(2+) stores, but not in resting cells. These results provide strong evidence for the modulation of SOCE by TPC2 involving de novo association between TPC2 and STIM1, as well as Orai1, in human cells.

39 Alejandro Berna-Erro; Carmen Galan; Natalia Dionisio; Luis J. Gomez; Gines M. Salido; Juan A. Rosado. Capacitative and non-capacitative signaling complexes in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1823 - 8, pp. 1242 - 1251. AMSTERDAM, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/08/2012. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488912001395>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.538
Revista dentro del 25%: Si
Posición de publicación: 45
Num. revistas en cat.: 45
Fuente de citas: WOS
Citas: 0

Resultados relevantes: Discharge of the intracellular Ca(2+) stores activates Ca(2+) entry through store-operated channels (SOCs). Since the recent identification of STIM1 and STIM2, as well as the Orai1 homologs, Orai2 and Orai3, the protein complexes involved in Ca(2+) signaling needs re-evaluation in native cells. Using real time PCR combined with Western blotting we have found the expression of the three Orai isoforms, STIM1, STIM2 and different TRPCs in human platelets. Depletion of the intracellular Ca(2+) stores with thapsigargin, independently of changes in cytosolic Ca(2+) concentration, enhanced the formation of a signaling complex involving STIM1, STIM2, Orai1, Orai2 and TRPC1. Furthermore, platelet treatment with the dyacylglicerol analog 1-oleoyl-2-acetyl-sn-glycerol (OAG) resulted in specific association of Orai3 with TRPC3. Treatment of platelets with arachidonic acid enhanced the association between Orai1 and Orai3 in human platelets and overexpression of Orai1 and Orai3 in HEK293 cells increased arachidonic acid-induced Ca(2+) entry. These results indicate that Ca(2+) store depletion results in the formation of exclusive signaling complexes involving STIM proteins, as well as Orai1, Orai2 and TRPC1, but not Orai3, which seems to be involved in non-capacitative Ca(2+) influx in human platelets.

40 Isaac Jardin; Letizia Albarran; Nuria Bermejo; Gines M. Salido; Juan A. Rosado. Homers regulate calcium entry and aggregation in human platelets: a role for Homers in the association between STIM1 and Orai1. BIOCHEMICAL JOURNAL. 445 - Part 1, pp. 29 - 38. Londres, Inner London(Reino Unido): PORTLAND PRESS LTD, 01/07/2012. Disponible en Internet en: <http://www.biochemj.org/bj/445/0029/bj4450029.htm>. ISSN 0264-6021

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.897
Revista dentro del 25%: Si
Posición de publicación: 61
Num. revistas en cat.: 61
Fuente de citas: WOS
Citas: 0

Resultados relevantes: Homer is a family of cytoplasmic adaptor proteins that play different roles in cell function, including the regulation of G-protein-coupled receptors. These proteins contain an Ena (Enabled)/VASP (vasodilator-stimulated phosphoprotein) homology 1 domain that binds to the PPXXF sequence motif, which is present in different Ca²?-handling proteins such as IP3 (inositol 1,4,5-trisphosphate) receptors and TRPC (transient receptor potential canonical) channels. In the present study we show evidence for a role of Homer proteins in the STIM1 (stromal interaction molecule 1)-Orai1 association, as well as in the TRPC1-IP3RII (type II IP3 receptor) interaction, which might be of relevance in platelet function. Treatment of human platelets with thapsigargin or thrombin results in a Ca²?-independent association of Homer1 with TRPC1 and IP3RII. In addition, thapsigargin and thrombin enhanced the association of Homer1 with STIM1 and Orai1 in a Ca²?-dependent manner. Interference with Homer function by introduction of the synthetic PPKKFR peptide into cells, which emulates the proline-rich sequences of the PPXXF motif, reduced STIM1-Orai1 and TRPC1- IP3RII associations, as compared with the introduction of the inactive PPKKRR peptide. The PPKKFR peptide attenuates thrombin-evoked Ca²? entry and the maintenance of thapsigargin-induced store-operated Ca²? entry. Finally, the PPKKFR peptide attenuated thrombin-induced platelet aggregation. The findings of the present study support an important role for Homer proteins in thrombin-stimulated platelet function, which is likely to be mediated by the support of agonist-induced Ca²? entry.

41 J. A. Tapia; B. Macias-Garcia; A. Miro-Moran; C. Ortega-Ferrusola; G. M. Salido; F. J. Pena; I. M. Aparicio. The Membrane of the Mammalian Spermatozoa: Much More Than an Inert Envelope. REPRODUCTION IN DOMESTIC ANIMALS. 47 - 3, SI, pp. 65 - 75. MALDEN(Alemania): WILEY-BLACKWELL, 01/06/2012. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1439-0531.2012.02046.x/abstract;jsessionid=7CD912ACAB4DF797081093347A7CE0D1.d04t01>. ISSN 0936-6768

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - VETERINARY SCIENCES
Índice de impacto: 1.356
Revista dentro del 25%: No
Posición de publicación: 37
Num. revistas en cat.: 145
Fuente de citas: WOS
Citas: 0

Resultados relevantes: Sperm plasma membrane is a very important structure that functions to protect sperm against extracellular injuries and to respond to physiological challenges. It plays a crucial role during sperm capacitation, in sperm-egg interaction and, finally, in fertilization. Concerning sperm technology, possibly the most important factors causing damage in mammalian spermatozoa membranes are initiated by the osmotic stress generated by dehydration of the cells during freezing and thawing. These changes are rapidly derived to the plasma and organelle membranes that gradually experiment loss of membrane architecture, causing unbalanced production of reactive oxygen species and increased lipid peroxidation. Other procedures such as sperm sorting or liquid storage of sperm also induce harmful changes in the integrity of the membrane. The specific composition of lipids of the sperm membranes may provide clues for understanding the mechanisms behind the differences found in the response to stress in different species. In the present review, we deal with the composition, architecture and organization of the sperm plasma membrane, emphasizing the factors that can affect membrane integrity. The intracellular signalling pathways related with membrane reorganization during capacitation and acrosome reaction are also reviewed.

42 Antonio Gonzalez; Patricia Santofimia-Castano; Ramon Rivera-Barreno; Gines M. Salido. Cinnamtannin B-1, a natural antioxidant that reduces the effects of H2O2 on CCK-8-evoked responses in mouse pancreatic acinar cells. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 68 - 2, pp. 181 - 191. PAMPLONA(España): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 01/06/2012. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs13105-011-0130-2>. ISSN 1138-7548

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 0

Resultados relevantes: This work was designed in order to gain an insight on the mechanisms by which antioxidants prevent pancreatic disorders. We have examined the properties of cinnamtannin B-1, which belongs to the class of polyphenols, against the effect of hydrogen peroxide (H(2)O(2)) in mouse pancreatic acinar cells. We have studied Ca(2+) mobilization, oxidative state, amylase secretion, and cell viability of cells treated with cinnamtannin B-1 in the presence of various concentrations of H(2)O(2). We found that H(2)O(2) (0.1-100 μM) increased CM-H(2)DCFDA-derived fluorescence, reflecting an increase in oxidation. Cinnamtannin B-1 (10 μM) reduced H(2)O(2)-induced oxidation of CM-H(2)DCFDA. CCK-8 induced oxidation of CM-H(2)DCFDA in a similar way to low micromolar concentrations of H(2)O(2), and cinnamtannin B-1 reduced the oxidant effect of CCK-8. In addition, H(2)O(2) induced a slow and progressive increase in intracellular free Ca(2+) concentration ([Ca(2+)](c)). Cinnamtannin B-1 reduced the effect of H(2)O(2) on [Ca(2+)](c), but only at the lower concentrations of the oxidant. H(2)O(2) inhibited amylase secretion in response to cholecystokinin, and cinnamtannin B-1 reduced the inhibitory action of H(2)O(2) on enzyme secretion. Finally, H(2)O(2) reduced cell viability, and the antioxidant protected acinar cells against H(2)O(2). In conclusion, the beneficial effects of cinnamtannin B-1 appear to be mediated by reducing the intracellular Ca(2+) overload and intracellular accumulation of digestive enzymes evoked by ROS, which is a common pathological precursor that mediates pancreatitis. Our results support the beneficial effect of natural antioxidants in the therapy against oxidative stress-derived deleterious effects on cellular physiology.

43 Esther Lopez; Isaac Jardin; Alejandro Berna-Erro; Nuria Bermejo; Gines M. Salido; Stewart O. Sage; Juan A. Rosado; Pedro C. Redondo. STIM1 tyrosine-phosphorylation is required for STIM1-Orai1 association in human platelets. CELLULAR SIGNALLING. 24 - 6, pp. 1315 - 1322. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/06/2012. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S089865681200071X>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 4.058
Revista dentro del 25%: No
Posición de publicación: 67
Num. revistas en cat.: 67

Fuente de citas: WOS
Citas: 0

Resultados relevantes: Stromal interaction molecule 1 (STIM1) is a key element of the store-operated Ca(2+) entry mechanism (SOCE). Recently, regulation of STIM1 by glycosylation and phosphorylation on serine/threonine or proline residues has been described; however other modes of phosphorylation that are important for activating SOCE in platelets, such as tyrosine phosphorylation, have been poorly investigated. Here we investigate the latency of STIM1 phosphorylation on tyrosine residues during the first steps of SOCE activation. Human platelets were stimulated and fixed at desired times using rapid kinetic assays instruments, and immunoprecipitation and western blotting techniques were then used to investigate the pattern of STIM1 tyrosine phosphorylation during the first steps of SOCE activation. We have found that maximal STIM1 tyrosine phosphorylation occurred 2.5s after stimulation of human platelets with thapsigargin (Tg). STIM1 localized in the plasma membrane were also phosphorylated in platelets stimulated with Tg. By using chemical inhibitors that target different members of the Src family of tyrosine kinases (SKFs), two independent signaling pathways involved in STIM1 tyrosine phosphorylation during the first steps of SOCE activation were identified. We finally conclude that STIM1 tyrosine phosphorylation is a key event for the association of STIM1 with plasma membrane Ca(2+) channels such as Orai1, hence it is required for conducting SOCE activation.

44 Alvaro Miro-Moran; Isaac Jardin; Cristina Ortega-Ferrusola; Gines M. Salido; Fernando J. Pena; Jose A. Tapia; Ines M. Aparicio. Identification and Function of Exchange Proteins Activated Directly by Cyclic AMP (Epac) in Mammalian Spermatozoa. PLOS ONE. 7 - 5, SAN FRANCISCO(Estados Unidos de América): PUBLIC LIBRARY SCIENCE, 01/05/2012. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3360633/>. ISSN 1932-6203

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: BIOLOGY
Índice de impacto: 4.092
Revista dentro del 25%: Si
Posición de publicación: 12
Num. revistas en cat.: 85

Fuente de citas: WOS
Citas: 0

Resultados relevantes: The role of cAMP in spermatic functions was classically thought to be mediated exclusively through the activation of Protein Kinase A (PKA). However, it has recently been shown that cAMP also exerts its effects through a PKA-independent pathway activating a family of proteins known as Epac proteins. Therefore, many of the spermatic functions thought to be regulated by cAMP through the activation of PKA are again under study. We aimed to identify and to investigate the role of Epac proteins in spermatozoa using a specific permeable analog (8-Br-2'-O-Me-cAMP). Also, we aimed to study its relationship with E-cadherin, an adhesion protein involved in fertility. Our results demonstrate the presence and sub-cellular distribution of Epac 1 and Epac 2 in mammalian spermatozoa. Capacitation and the acrosome reaction induced a change in the localization of Epac proteins in sperm. Moreover, incubation with 8-Br-2'-O-Me-cAMP prompted an increase in Rap1 activation, in the scrambling of plasma membrane phospholipids (necessary for the capacitation process), the acrosome reaction, motility, and calcium mobilization, when spermatozoa were incubated in acrosome reaction conditions. Finally, the activation of Epac proteins induced a change in the distribution of E-cadherin. Therefore, the increase in the acrosome reaction, together with the increase in calcium (which is known to be essential for

fertilization) and the Epac nteraction with E-cadherin, might indicate that Epac proteins have an important role in gamete recognition and fertilization.

45 Lourdes Garcia-Sanchez; Patricia Santofimia-Castano; Alvaro Miro-Moran; Jose A. Tapia; Gines M. Salido; Antonio Gonzalez. Resveratrol mobilizes Ca2+ from intracellular stores and induces c-Jun N-terminal kinase activation in tumoral AR42J cells. MOLECULAR AND CELLULAR BIOCHEMISTRY. 362 - 1-2, pp. 15 - 23. DORDRECHT(Holanda): SPRINGER, 01/03/2012. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs11010-011-1123-8>. ISSN 0300-8177

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 2.057
Revista dentro del 25%: No
Posición de publicación: 131
Num. revistas en cat.: 181
Fuente de citas: WOS
Citas: 0

Resultados relevantes: Resveratrol (3,4',5-trihydroxy-trans-stilbene), a phytoalexin naturally found in grapes and red wine, is a redox-active compound endowed with significant positive activities. In this study, the effects of resveratrol on intracellular free Ca(2+) concentration ([Ca(2+)](c)) and on cell viability in tumoral AR42J pancreatic cells are examined. The results show that resveratrol (100 μM and 1 mM) induced changes in [Ca(2+)](c), that consisted of single or short lasting spikes followed by a slow reduction toward a value close to the resting level. Lower concentrations of resveratrol (1 and 10 μM) did not show detectable effects on [Ca(2+)](c). Depletion of intracellular Ca(2+) stores by stimulation of cells with 1 nM CCK-8, 20 pM CCK-8 or 1 μM thapsigargin, blocked Ca(2+) responses evoked by resveratrol. Conversely, prior stimulation of cells with resveratrol inhibited Ca(2+) mobilization in response to a secondary application of CCK-8 or thapsigargin. In addition, resveratrol inhibited oscillations in [Ca(2+)](c) evoked by a physiological concentration of CCK-8 (20 pM). On the other hand, incubation of cells in the presence of resveratrol induced a reduction of cell viability. Finally, incubation of AR42J cells in the presence of resveratrol led to activation of c-Jun N-terminal kinase (JNK), a mitogen-activated protein kinase responsive to stress stimuli. Activation of JNK was reduced in the absence of extracellular Ca(2+). In summary, the results show that resveratrol releases Ca(2+) from intracellular stores, most probably from the endoplasmic reticulum, and reduces AR42J cells viability. Reorganization of cell's survival/death processes in the presence of resveratrol may involve Ca(2+)-mediated JNK activation.

46 N. Dionisio; L. Albarran; A. Berna-Erro; J. M. Hernandez-Cruz; G. M. Salido; J. A. Rosado. Functional role of the calmodulin- and inositol 1,4,5-trisphosphate receptor-binding (CIRB) site of TRPC6 in human platelet activation. CELLULAR SIGNALLING. 23 - 11, pp. 1850 - 1856. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/11/2011. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S089865681100194X>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 4.058
Revista dentro del 25%: No
Posición de publicación: 67
Num. revistas en cat.: 67
Fuente de citas: WOS
Citas: 2

Resultados relevantes: Co-immunoprecipitation of TRPC6 with CaM or the IP(3)Rs at different cytosolic free Ca(2+) concentrations ([Ca(2+)](c)) indicates that the association between these proteins is finely regulated by cytosolic Ca(2+) via association of CaM and displacement of the IP(3)Rs at high [Ca(2+)](c). Thrombin-stimulated association of TRPC6 with CaM or the IP(3)Rs was sensitive to 2-APB and partially inhibited by dimethyl BAPTA loading, thus suggesting that the association between these proteins occurs through both Ca(2+)-dependent and -independent mechanisms. Incorporation of an anti-TRPC6 C-terminal antibody, whose epitope overlaps the CIRB region, impaired the dynamics of the association of TRPC6 with CaM and the IP(3)Rs, which lead to both inhibition and enhancement of thrombin- and thapsigargin-evoked Ca(2+) entry in the presence of low or high, respectively, extracellular Ca(2+) concentrations, as well as altered thrombin-evoked platelet aggregation.

47 Carmen Galan; Natalia Dionisio; Tarik Smani; Gines M. Salido; Juan A. Rosado. The cytoskeleton plays a modulatory role in the association between STIM1 and the Ca2+ channel subunits Orai1 and TRPC1. BIOCHEMICAL PHARMACOLOGY. 82 - 4, pp. 400 - 410. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/08/2011. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295211003303>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 4.705
Revista dentro del 25%: Si
Posición de publicación: 28
Num. revistas en cat.: 28
Fuente de citas: WOS
Citas: 3

Resultados relevantes: Store-operated Ca(2+) entry (SOCE) is a major pathway for Ca(2+) influx in non-excitable cells. Recent studies favour a conformational coupling mechanism between the endoplasmic reticulum (ER) Ca(2+) sensor STIM1 and Ca(2+) permeable channels in the plasma membrane to explain SOCE. Previous studies have reported a role for the cytoskeleton modulating the activation of SOCE; therefore, here we have investigated whether the interaction between STIM1 and the Ca(2+) permeable channels is modulated by the actin or microtubular network. In HEK-293 cells, treatment with the microtubular disrupter colchicine enhanced both the activation of SOCE and the association between STIM1 and Orai1 or TRPC1 induced by thapsigargin (TG). Conversely, stabilization of the microtubules by paclitaxel attenuated TG-evoked activation of SOCE and the interaction between STIM1 and the Ca(2+) channels Orai1 and TRPC1, altogether suggesting that the microtubules act as a negative regulator of SOCE. Stabilization of the cortical actin filament layer results in inhibition of TG-evoked both association between STIM1, Orai1 and TRPC1 and SOCE. Interestingly, disruption of the actin filament network by cytochalasin D did not significantly modify TG-evoked association between STIM1 and Orai1 or TRPC1 but enhanced TG-stimulated SOCE. Finally, inhibition of calmodulin by calmidazolium enhances TG-evoked SOCE and disruption of the actin cytoskeleton results in inhibition of TG-evoked association of calmodulin with Orai1 and TRPC1. Thus, we demonstrate that the cytoskeleton plays an essential role in the regulation of SOCE through the modulation of the interaction between their main molecular components.

48 Natalia Dionisio; Letizia Albarran; Jose J. Lopez; Alejandro Berna-Erro; Gines M. Salido; Regis Bobe; Juan A. Rosado. Acidic NAADP-releasable Ca2+ compartments in the megakaryoblastic cell line MEG01. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1813 - 8, pp. 1483 - 1494. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/08/2011. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488911001364>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.538
Revista dentro del 25%: Si
Posición de publicación: 45
Num. revistas en cat.: 45
Fuente de citas: WOS
Citas: 6

Resultados relevantes: Treatment of MEG01 cells with the H(+)/K(+) ionophore nigericin or the V-type H(+)-ATPase selective inhibitor bafilomycin A1 revealed the presence of acidic Ca(2+) stores in these cells, sensitive to the SERCA inhibitor 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). NAADP releases Ca(2+) from acidic lysosomal-like Ca(2+) stores in MEG01 cells probably mediated by the activation of TPC1 and TPC2 as demonstrated by TPC1 and TPC2 expression silencing and overexpression. Ca(2+) efflux from the acidic lysosomal-like Ca(2+) stores or the endoplasmic reticulum (ER) results in ryanodine-sensitive activation of Ca(2+)-induced Ca(2+) release (CICR) from the complementary Ca(2+) compartment. Our results show for the first time NAADP-evoked Ca(2+) release from acidic compartments through the activation of TPC1 and TPC2, and CICR, in a megakaryoblastic cell line.

49 Patricia Santofimia-Castano; Gines M. Salido; Antonio Gonzalez. Ethanol reduces kainate-evoked glutamate secretion in rat hippocampal astrocytes. BRAIN RESEARCH. 1402, pp. 1 - 8. AMSTERDAM(Holanda): ELSEVIER SCIENCE BV, 01/07/2011. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S000689931101016X>. ISSN 0006-8993

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - NEUROSCIENCES
Índice de impacto: 2.728
Revista dentro del 25%: No
Posición de publicación: 126
Num. revistas en cat.: 244

Resultados relevantes: In this study we have used rat hippocampal astrocytes in culture to investigate the effect of ethanol on kainate-induced glutamate secretion. Our results show that kainate (10 μM to 500 μM) stimulated glutamate release from astrocytes. Preincubation of astrocytes in the presence of ethanol induced a concentration-dependent (1mM-50mM) inhibition of glutamate release caused by stimulation of cells with 100 μM kainate. Inhibition of alcohol-dehydrogenase, by preincubation of astrocytes in the presence of 4-methylpyrazole (1mM), abolished ethanol-induced inhibition of glutamate release in response to kainate. On the other hand, preincubation of astrocytes in the presence of the antioxidant cinnamtannin B-1 (10 μM) also blocked ethanol inhibitory action on glutamate release in response to kainate. Ethanol (50mM) reduced Ca(2+) mobilization in response to kainate, whereas cinnamtannin B-1 reversed the inhibitory action of ethanol on Ca(2+) mobilization by kainate. Our results are consistent with an inhibitory action of ethanol on glutamate secretion from hippocampal astrocytes. The inhibitory effects of ethanol are probably due to its oxidative metabolization, involves reactive oxygen species production, and a lower Ca(2+) mobilization by kainate. Taking into account the pivotal role that astrocytes play within the central nervous system, especially in relation to neurons, the negative effects of ethanol on the release of glutamate might affect neuron-glia communication in the hippocampus, which might lead to functional defects in the brain.

50 Antonio Gonzalez; Angel del Castillo-Vaquero; Alvaro Miro-Moran; Jose A. Tapia; Gines M. Salido. Melatonin reduces pancreatic tumor cell viability by altering mitochondrial physiology. JOURNAL OF PINEAL RESEARCH. 50 - 3, pp. 250 - 260. MALDEN(Dinamarca): WILEY-BLACKWELL, 01/04/2011. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2010.00834.x/abstract>. ISSN 0742-3098

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 5.794
Revista dentro del 25%: Si
Posición de publicación: 5
Num. revistas en cat.: 5
Fuente de citas: WOS
Citas: 6

Resultados relevantes: Melatonin reduces proliferation in many different cancer cell lines. Thus, melatonin is considered a promising antitumor agent, promoting apoptosis in tumor cells while preserving viability of normal cells. Herein, we examined the effects of melatonin on the pancreatic AR42J tumor cell line. We have analyzed cytosolic-free Ca2+ concentration ([Ca2+](c)), mitochondrial-free Ca2+ concentration ([Ca2+](m)), mitochondrial membrane potential (Psi m), mitochondrial flavin adenine dinucleotide (FAD) oxidative state, cellular viability and caspase-3 activity. Our results show that melatonin induced transient changes in [Ca2+](c) and [Ca2+](m). Melatonin also induced depolarization of Psi m and led to a reduction in the level of oxidized FAD. In addition, melatonin reduced AR42J cell viability. Finally, we found a Ca2+-dependent caspase-3 activation in response to melatonin. Collectively, these data support the likelihood that melatonin reduces viability of tumor AR42J cells via its action on mitochondrial activity and caspase-3 activation.

51 Francisco J. Aulestia; Pedro C. Redondo; Arancha Rodriguez-Garcia; Juan A. Rosado; Gines M. Salido; Maria Teresa Alonso; Javier Garcia-Sancho. Two distinct calcium pools in the endoplasmic reticulum of HEK-293T cells. BIOCHEMICAL JOURNAL. 435 - Part 1, pp. 227 - 235. Londres, Inner London(Reino Unido): PORTLAND

PRESS LTD, 01/04/2011. Disponible en Internet en: <http://www.biochemj.org/bj/435/0227/bj4350227.htm>. ISSN 0264-6021

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.897
Revista dentro del 25%: Si
Posición de publicación: 61
Num. revistas en cat.: 61
Fuente de citas: WOS
Citas: 6

Resultados relevantes: Agonist-sensitive intracellular Ca2+ stores may be heterogeneous and exhibit distinct functional features. We have studied the properties of intracellular Ca2+ stores using targeted aequorins for selective measurements in different subcellular compartments. Both, HEK-293T [HEK (human embryonic kidney)-293 cells expressing the large T-antigen of SV40 (simian virus 40)] and HeLa cells accumulated Ca2+ into the ER (endoplasmic reticulum) to near millimolar concentrations and the IP3-generating agonists, carbachol and ATP, mobilized this Ca2+ pool. We find in HEK-293T, but not in HeLa cells, a distinct agonist-releasable Ca2+ pool insensitive to the SERCA (sarco/endoplasmic reticulum Ca2+ ATPase) inhibitor TBH [2,5-di-(t-butyl)-benzohydroquinone]. TG (thapsigargin) and CPA (cyclopiazonic acid) completely emptied this pool, whereas lysosomal disruption or manoeuvres collapsing endomembrane pH gradients did not. Our results indicate that SERCA3d is important for filling the TBH-resistant store as: (i) SERCA3d is more abundant in HEK-293T than in HeLa cells; (ii) the SERCA 3 ATPase activity of HEK-293T cells is not fully blocked by TBH; and (iii) the expression of SERCA3d in HeLa cells generated a TBH-resistant agonist-mobilizable compartment in the ER. Therefore the distribution of SERCA isoforms may originate the heterogeneity of the ER Ca2+ stores and this may be the basis for store specialization in diverse functions. This adds to recent evidence indicating that SERCA3 isoforms may subserve important physiological and pathophysiological mechanisms.

52 Hanene Zbidi; Isaac Jardin; Geoffrey E. Woodard; Jose J. Lopez; Alejandro Berna-Erro; Gines M. Salido; Juan A. Rosado. STIM1 and STIM2 Are Located in the Acidic Ca2+ Stores and Associates with Orai1 upon Depletion of the Acidic Stores in Human Platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 286 - 14, pp. 12257 - 12270. BETHESDA(Estados Unidos de América): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/04/2011. Disponible en Internet en: <http://www.jbc.org/content/286/14/12257.long>. ISSN 0021-9258

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.773
Revista dentro del 25%: Si
Posición de publicación: 66
Num. revistas en cat.: 66
Fuente de citas: WOS
Citas: 6

Resultados relevantes: Mammalian cells accumulate Ca2+ into agonist-sensitive acidic organelles, vesicles that possess a vacuolar proton-ATPase. Acidic Ca2+ stores include secretory granules and lysosome-related organelles. Current evidence clearly indicates that acidic Ca2+ stores participate in cell signaling and function, including the activation of store-operated Ca2+ entry in human platelets upon depletion of the acidic stores, although the mechanism underlying the activation of store-operated Ca2+ entry controlled by the acidic stores remains unclear. STIM1 has been presented as the endoplasmic reticulum Ca2+ sensor, but its role sensing intraluminal Ca2+ concentration in the acidic stores has not been investigated. Here we report that STIM1 and STIM2 are expressed in the lysosome-related organelles and dense granules in human platelets isolated by immunomagnetic sorting. Depletion of the acidic Ca2+ stores using the specific vacuolar proton-ATPase inhibitor, bafilomycin A1, enhanced the association between STIM1 and STIM2 as well as between these proteins and the plasma membrane channel Orai1. Depletion of the acidic Ca2+ stores also induces time-dependent co-immunoprecipitation of STIM1 with the TRPC proteins hTRPC1 and hTRPC6, as well as between Orai1 and both TRPC proteins. In addition, bafilomycin A1 enhanced the association between STIM2 and SERCA3. These

findings demonstrate the location of STIM1 and STIM2 in the acidic Ca2+ stores and their association with Ca2+ channels and ATPases upon acidic stores discharge.

53 Isaac Jardin; Jose J. Lopez; Hanene Zbidi; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Attenuated store-operated divalent cation entry and association between STIM1, Orai1, hTRPC1 and hTRPC6 in platelets from type 2 diabetic patients. BLOOD CELLS MOLECULES AND DISEASES. 46 - 3, pp. 252 - 260. SAN DIEGO(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/03/2011. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1079979610003384>. ISSN 1079-9796

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - HEMATOLOGY
Índice de impacto: 2.351
Revista dentro del 25%: No
Posición de publicación: 40
Num. revistas en cat.: 40
Fuente de citas: WOS
Citas: 1

Resultados relevantes: Agonist-evoked Ca(2+) entry has been reported to be enhanced in platelets from type 2 diabetic patients, which results in altered platelet responsiveness and cardiovascular complications. The present study is aimed to investigate whether store-operated divalent cation entry, a major Ca(2+) entry pathway, is altered in platelets from diabetic patients. Store-operated divalent cation entry was estimated by determination of Mn(2+) entry. Association between STIM1, Orai1, hTRPC1 and hTRPC6 was detected by co-immunoprecipitation and Western blotting. In the presence of specific purinergic and serotoninergic receptor antagonists Mn(2+) entry, induced by thapsigargin (TG), was reduced in platelets from diabetic donors as compared to healthy controls. Treatment with TG or the agonist thrombin enhanced co-immunoprecipitation of STIM1 with Orai1, hTRPC1 and hTRPC6 in platelets from healthy donors, a response that was significantly reduced in platelets from diabetic patients. Our results indicate that store-operated divalent cation entry is reduced in platelets from type 2 diabetic subjects, which is likely mediated by impairment of the association of STIM1 with the channel subunits Orai1, hTRPC1 and hTRPC6 and might be involved in the pathogenesis of the altered platelet responsiveness observed in diabetic patients.

54 Natalia Dionisio; Carmen Galan; Isaac Jardin; Gines M. Salido; Juan. A. Rosado. Lipid rafts are essential for the regulation of SOCE by plasma membrane resident STIM1 in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1813 - 3, pp. 431 - 437. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/03/2011. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488911000188>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.538
Revista dentro del 25%: Si
Posición de publicación: 45
Num. revistas en cat.: 45
Fuente de citas: WOS
Citas: 0

Resultados relevantes: STIM1 is a transmembrane protein essential for the activation of store-operated Ca^{2+} entry (SOCE), a major Ca^{2+} influx mechanism. STIM1 is either located in the endoplasmic reticulum, communicating the Ca^{2+} concentration in the stores to plasma membrane channels or in the plasma membrane, where it might sense the extracellular Ca^{2+} concentration. Plasma membrane-located STIM1 has been reported to mediate the SOCE sensitivity to extracellular Ca^{2+} through its interaction with Orai1. Here we show that plasma membrane lipid raft domains are essential for the regulation of SOCE by extracellular Ca^{2+}. Treatment of platelets with the SERCA inhibitor thapsigargin (TG) induced Mn^{2+} entry, which was inhibited by increasing concentrations of extracellular Ca^{2+}. Platelet treatment with methyl-ß-cyclodextrin, which removes cholesterol and disrupts the lipid raft domains, impaired the inactivation of Ca^{2+} entry induced by extracellular Ca^{2+}. Methyl-ß-cyclodextrin also abolished translocation of STIM1 to the plasma membrane stimulated by treatment with TG and prevented TG-evoked co-immunoprecipitation between plasma membrane-located STIM1 and the Ca^{2+} permeable channel

Orai1. These findings suggest that lipid raft domains are essential for the inactivation of SOCE by extracellular Ca²+ mediated by the interaction between plasma membrane-located STIM1 and Orai1.

55 Gines M. Salido; Isaac Jardin; Juan A. Rosado. The TRPC Ion Channels: Association with Orai1 and STIM1 Proteins and Participation in Capacitative and Non-capacitative Calcium Entry. 704, pp. 413 - 433. 01/01/2011. Disponible en Internet en: <http://link.springer.com/chapter/10.1007%2F978-94-007-0265-3_23>. ISSN 0065-2598, ISBN 978-94-007-0264-6

Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de capítulo de libro
Fuente de citas: WOS
Citas: 8

Resultados relevantes: Transient receptor potential (TRP) proteins are involved in a large number of non-selective cation channels that are permeable to both monovalent and divalent cations. Two general classes of receptor-mediated Ca(2+) entry has been proposed: one of then is conduced by receptor-operated Ca(2+) channels (ROC), the second is mediated by channels activated by the emptying of intracellular Ca(2+) stores (store-operated channels or SOC). TRP channels have been presented as subunits of both ROC and SOC, although the precise mechanism that regulates the participation of TRP proteins in these Ca(2+) entry mechanisms remains unclear. Recently, TRPC proteins have been shown to associate with Orai1 and STIM1 in a dynamic ternary complex regulated by the occupation of membrane receptors in several cell models, which might play an important role in the function of TRPC proteins. The present review summarizes the current knowledge concerning the association of TRP proteins with Orai and STIM proteins and how this affects the participation of TRP proteins in store-operated or receptor-operated Ca(2+) entry.

56 Hanene Zbidi; Isaac Jardin; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Ca2+ leakage rate from agonist-sensitive intracellular pools is altered in platelets from patients with type 2 diabetes. PLATELETS. 22 - 4, pp. 284 - 293. Londres, Inner London(Reino Unido): INFORMA HEALTHCARE, 01/01/2011. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/09537104.2010.528813>. ISSN 0953-7104

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - HEMATOLOGY
Índice de impacto: 1.847
Revista dentro del 25%: No
Posición de publicación: 48
Num. revistas en cat.: 48
Fuente de citas: WOS
Citas: 1

Resultados relevantes: Platelets from patients with type 2 diabetes show abnormalities in intracellular Ca(2+) homeostasis that are involved in platelet hyperaggregability and the development of thrombotic complications. Different Ca(2+) transport mechanisms have been reported to be altered in platelets from patients with type 2 diabetes, including the sarcoendoplasmic and plasma membrane Ca(2+)-ATPases, plasma membrane Ca(2+) channels, or the Na(+)/Ca(2+) exchanger. Here, we have investigated whether passive Ca(2+) leak from the stores is altered in platelets from patients with type 2 diabetes. Resting cytosolic Ca(2+) concentration ([Ca(2+)](i)) was found to be greater in platelets from patients with type 2 diabetes than in healthy controls. In a Ca(2+)-free medium, platelet stimulation with thrombin or ADP evokes a rapid and transient increase in [Ca(2+)](i) that was found to be greater in patients with diabetes than in healthy controls. Sequential or combined inhibition of Ca(2+) extrusion and Ca(2+) sequestration into the stores reduced the difference between the responses to agonists in patients with diabetes and healthy controls, although agonist-induced Ca(2+) efflux from the stores was still significantly greater in patients with diabetes. Ca(2+) leak from the dense tubular system or the acidic stores, induced by a low concentration of thapsigargin or 2,5-di-(t-butyl)-1,4-hydroquinone (TBHQ), respectively, was clearly greater in patients with diabetes than in controls, and was not significantly modified by treatment with 2-APB. These findings indicate that passive Ca(2+) leakage rate from the intracellular stores in platelets is significantly enhanced in patients with type 2 diabetes mellitus and this might explain the increased resting [Ca(2+)](i).

57 Ramon Rivera-Barreno; Angel del Castillo-Vaquero; Gines M. Salido; Antonio Gonzalez. Effect of cinnamtannin B-1 on cholecystokinin-8-evoked responses in mouse pancreatic acinar cells. CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. 37 - 10, pp. 980 - 988. MALDEN(Estados Unidos de América): WILEY-BLACKWELL PUBLISHING, INC, 01/10/2010. Disponible en Internet en: <http://rd.springer.com/article/10.1007/s13105-011-0130-2>. ISSN 0305-1870

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 1.960
Revista dentro del 25%: No
Posición de publicación: 47
Num. revistas en cat.: 78
Fuente de citas: WOS
Citas: 4

Resultados relevantes: 1. Cinnamtannin B-1 is a naturally occurring A-type proanthocyanidin that belongs to a class of polyphenols widely distributed throughout the plant kingdom and exhibiting anti-oxidant properties. 2. In the present study, we examined the effects of cinnamtannin B-1 on cholecystokinin octapeptide (CCK-8)-evoked Ca(2+) mobilization, reactive oxygen species (ROS) production and amylase secretion in the exocrine pancreas. 3. Stimulation of cells with 1 nmol/L CCK-8 led to a transient increase in the cytosolic free calcium concentration ([Ca(2+)](c)), followed by a decrease towards a value close to the prestimulation level. In the presence of 10 µmol/L cinnamtannin B-1, stimulation of cells with CCK-8 resulted in a smaller [Ca(2+)](c) peak response, a faster rate of decay of [Ca(2+)](c) and lower values for the steady state of [Ca(2+)](c) , compared with the effect of CCK-8 alone. Cinnamtannin B-1 decreased Ca(2+) influx after depletion of intracellular stores by either CCK-8 or thapsigargin (1 µmol/L). Conversely, CCK-8 increased the fluorescence of 5-(and-6)-chloromethyl-2',7'-dichlorodihydrofluorescein diacetate acetyl ester (CM-H(2) DCFDA), reflecting an increase in oxidation. Cinnamtannin B-1 reduced CCK-8-induced oxidation of CM-H(2) DCFDA. Cholecystokinin-8 had a biphasic effect on amylase secretion, producing maximum at a concentration of 0.1 nmol/L and reducing secretion at higher concentrations. Pre-incubation of cells with 10 µmol/L cinnamtannin B-1 significantly attenuated the inhibition of enzyme secretion in response to high concentrations of CCK-8 (i.e. >10(-10) mol/L). Finally, the anti-oxidant protected acinar cells against CCK-8-induced cell death. 4. The beneficial effects of cinnamtannin B-1 appear to be mediated by a reduction in intracellular Ca(2+) overload, ROS production and intracellular accumulation of digestive enzymes, which is a common pathological precursor that mediates pancreatitis.

58 Angel del Castillo-Vaquero; Gines M. Salido; Antonio Gonzalez. Melatonin induces calcium release from CCK-8-and thapsigargin-sensitive cytosolic stores in pancreatic AR42J cells. JOURNAL OF PINEAL RESEARCH. 49 - 3, pp. 256 - 263. MALDEN(Estados Unidos de América): WILEY-BLACKWELL, 01/10/2010. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2010.00790.x/abstract>. ISSN 0742-3098

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 5.855
Revista dentro del 25%: Si
Posición de publicación: 5
Num. revistas en cat.: 78
Fuente de citas: WOS
Citas: 2

Resultados relevantes: Melatonin is produced following circadian rhythm with high levels being released at night and has been implicated in the regulation of physiological processes in major tissues, including the pancreas. The aim of our study was to examine the effects of melatonin on intracellular free Ca(2+) concentration ([Ca(2+)](c)) in AR42J pancreatic cells. Our results show that stimulation of cells with 1 nm cholecystokinin (CCK)-8 led to a transient increase in [Ca(2+)](c) followed by a decrease towards a value close to the prestimulation level. Melatonin (at the concentrations 1, 10, 100 µm and 1 mm) induced changes in [Ca(2+)](c) that consisted of single or short lasting spikes in the form of oscillations or slow transient increases followed by a slow reduction towards a value close to the resting level. Depletion of intracellular Ca(2+) stores by stimulation of cells with 1 nm CCK-8 or 1 µm thapsigargin (Tps) blocked Ca(2+) responses evoked by melatonin in the majority of cells. Conversely, prior stimulation of cells with 1 mm melatonin in the absence of extracellular Ca(2+) inhibited Ca(2+) mobilization in response to a secondary application of CCK-8 or Tps. In summary, our results show that melatonin releases

Ca(2+) from intracellular stores and can therefore modulate the responses of the pancreas to CCK-8. The source for Ca(2+) mobilization most probably is the endoplasmic reticulum. These data raise the possibility that melatonin also involves Ca(2+) signalling, in addition to other intracellular messengers, to modulate cellular function.

59 Carmen Galan; Geoffrey E. Woodard; Natalia Dionisio; Gines M. Salido; Juan A. Rosado. Lipid rafts modulate the activation but not the maintenance of store-operated Ca2+ entry. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1803 - 9, pp. 1083 - 1093. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/09/2010. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S016748891000176X>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.733
Revista dentro del 25%: Si
Posición de publicación: 62
Num. revistas en cat.: 62
Fuente de citas: WOS
Citas: 11

Resultados relevantes: Different studies have reported that proteins involved in Ca(2+) entry are localized in discrete plasma membrane domains known as lipid rafts, which have been suggested to support store-operated Ca(2+) entry by facilitating STIM1 clustering in endoplasmic reticulum-plasma membrane junctions as well as the interaction of STIM1 with TRPC1. Here we report that treatment of HEK293 cells with thapsigargin (TG) results in the activation of Ca(2+) entry with two components, an early, La(3+)-sensitive, component and a late component that shows both La(3+)-sensitive and -insensitive constituents. Preincubation with methyl-beta-cyclodextrin (MbetaCD) prevented TG-induced activation of Ca(2+) entry but, in contrast, enhanced this process after its activation. Addition of MbetaCD after store depletion did not modify the La(3+)-sensitive store-operated divalent cation entry but increased La(3+)-insensitive non-capacitative Ca(2+) entry. Cell stimulation with TG results in a transient increase in Orai1 co-immunoprecipitation with STIM1, TRPC1 and TRPC6. TG-induced association of these proteins was significantly attenuated by preincubation for 30 min with MbetaCD, without altering surface expression of Orai1 or TRPCs. In contrast, the association of Orai1 with STIM1 or TRPC1 was unaffected when MbetaCD was added after store depletion with TG. Addition of MbetaCD to TG-treated cells promoted dissociation between Orai1 and TRPC6, as well as non-capacitative Ca(2+) entry. TRPC6 expression silencing indicates that MbetaCD-enhanced non-capacitative Ca(2+) entry was mediated by TRPC6. In conclusion, lipid raft domains are necessary for the activation but not the maintenance of SOCE probably due to the support of the formation of Ca(2+) signalling complexes involving Orai1, TRPCs and STIM1.

60 N. Dionisio; I. Jardin; G. M. Salido; J. A. Rosado. Homocysteine, Intracellular Signaling and Thrombotic Disorders. CURRENT MEDICINAL CHEMISTRY. 17 - 27, pp. 3109 - 3119. SAIF ZONE(Emiratos Árabes Unidos): BENTHAM SCIENCE PUBL LTD, 01/09/2010. Disponible en Internet en: <http://www.benthamdirect.org/pages/content.php?CMC/2010/00000017/00000027/0011C.SGM>. ISSN 0929-8673

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CHEMISTRY, MEDICINAL
Índice de impacto: 4.630
Revista dentro del 25%: Si
Posición de publicación: 4
Num. revistas en cat.: 4
Fuente de citas: WOS
Citas: 4

Resultados relevantes: Homocysteine, a sulphur-containing amino acid derived from methionine, has been presented as an independent risk factor for cardiovascular disorders, including atherosclerosis and thrombogenesis. The mechanisms underlying homocysteine-induced effects have been intensively investigated over the last two decades. Homocysteine can induce oxidative stress promoting oxidant injury to vascular and blood cells. Hyperhomocysteinemia often results in intracellular Ca2+ mobilization, endoplasmic reticulum (ER) stress, with the subsequent development of apoptotic events, chronic inflammation leading to endothelial

dysfunction and remodeling of the extracellular matrix. Homocysteine has also been reported to induce modulation of gene expression through alteration of the methylation status. The effects of elevated concentrations of circulating homocysteine on the vascular wall, platelet function and coagulation factors promote the development of a pro-coagulant state. The pathophysiological significance of homocysteine in the development of vascular disorders through the induction of endothelial dysfunction and abnormal platelet activity and blood coagulation is discussed in this review.

61 Hanene Zbidi; Pedro C. Redondo; Jose J. Lopez; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Homocysteine induces caspase activation by endoplasmic reticulum stress in platelets from type 2 diabetics and healthy donors. THROMBOSIS AND HAEMOSTASIS. 103 - 5, SI, pp. 1022 - 1032. STUTTGART(Alemania): SCHATTAUER GMBH-VERLAG MEDIZIN NATURWISSENSCHAFTEN, 01/05/2010. Disponible en Internet en: <http://www.schattauer.de/en/magazine/subject-areas/journals-a-z/thrombosis-and-haemostasis/contents/archive/issue/1069/manuscript/12784.html>. ISSN 0340-6245

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PERIPHERAL VASCULAR DISEASE
Índice de impacto: 4.701
Revista dentro del 25%: Si
Posición de publicación: 9
Num. revistas en cat.: 9
Fuente de citas: WOS
Citas: 4

Resultados relevantes: Diabetes mellitus is a disease characterised by hyperglycaemia and associated with several cardiovascular disorders, including angiopathy and platelet hyperactivity, which are major causes of morbidity and mortality in type 2 diabetes mellitus. In type 2 diabetic patients, homocysteine levels are significantly increased compared with healthy subjects. Hyperhomocysteinaemia is an independent risk factor for macro- and microangiopathy and mortality. The present study is aimed to investigate the effect of homocysteine on platelet apoptosis. Changes in cytosolic or intraluminal free Ca(2+) concentration were determined by fluorimetry. Caspase activity and phosphorylation of the eukaryotic initiation factor 2alpha (eIF2alpha) were explored by Western blot. Our results indicate that homocysteine releases Ca(2+) from agonist sensitive stores, enhances eIF2alpha phosphorylation at Ser(51) and activates caspase-3 and -9 independently of extracellular Ca(2+). Homocysteine induced activation of caspase-3 and -9 was abolished by salubrinal, an agent that prevents endoplasmic reticulum (ER) stress-induced apoptosis. Homocysteine-induced platelet effects were significantly greater in type 2 diabetics than in healthy subjects. These findings demonstrate that homocysteine induces ER stress-mediated apoptosis in human platelets, an event that is enhanced in type 2 diabetic patients, which might be involved in the pathogenesis of cardiovascular complications associated with type 2 diabetes mellitus.

62 Angel Del Castillo-Vaquero; Gines M. Salido; Antonio Gonzalez. Increased calcium influx in the presence of ethanol in mouse pancreatic acinar cells. INTERNATIONAL JOURNAL OF EXPERIMENTAL PATHOLOGY. 91 - 2, pp. 114 - 124. MALDEN(Estados Unidos de América): WILEY-BLACKWELL PUBLISHING, INC, 01/04/2010. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2965897/>. ISSN 0959-9673

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PATHOLOGY
Índice de impacto: 2.127
Revista dentro del 25%: No
Posición de publicación: 34
Num. revistas en cat.: 76
Fuente de citas: WOS
Citas: 2

Resultados relevantes: The effects of alcohol on Ca2+ signalling remains poorly understood. Here we have investigated the effects of acute ethanol exposure on Ca2+ influx in mouse pancreatic acinar cells. Cells were loaded with fura-2 and the changes in fluorescence were monitored by spectrofluorimetry and imaging analysis. Stimulation of cells with 20 pM cholecystokinin evoked an oscillatory pattern in [Ca2+]c, both in the presence and in the absence of extracellular Ca2+. Stimulation of cells with cholecystokinin in the presence of 50 mM ethanol led to a transformation of physiological oscillations into a single transient increase in [Ca2+]c. This effect was observed

when Ca2+ was present in the extracellular medium, and did not appear in its absence. Addition of 1 mM CaCl2 to the extracellular medium, following release of Ca2+ from intracellular stores by stimulation of cells with 1 nM cholecystokinin or 1 µM thapsigargin in the absence of extracellular Ca2+, was followed by an increase in [Ca2+]c. Ca2+ influx was increased in the presence of 50 mM ethanol. The anti-oxidant cinnamtannin B-1 (10 µM) or inhibition of alcohol dehydrogenase by 4-MP (1 mM), significantly reduced Ca2+ influx evoked by cholecystokinin in the presence of ethanol. In summary, intoxicating concentrations of ethanol may lead to over stimulation of pancreatic acinar cells by cholecystokinin. This might be partially explained by the generation of reactive oxygen species and an increased Ca2+ entry in the presence of ethanol. Potentially ethanol might lead to Ca2+ overload, which is a common pathological precursor that is implicated in pancreatitis.

63 Geoffrey E. Woodard; Jose J. Lopez; Isaac Jardin; Gines M. Salido; Juan A. Rosado. TRPC3 Regulates Agonist-stimulated Ca2+ Mobilization by Mediating the Interaction between Type I Inositol 1,4,5-Trisphosphate Receptor, RACK1, and Orai1. JOURNAL OF BIOLOGICAL CHEMISTRY. 285 - 11, pp. 8045 - 8053. BETHESDA(Estados Unidos de América): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/03/2010. Disponible en Internet en: <http://www.jbc.org/content/285/11/8045.long>. ISSN 0021-9258

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.328
Revista dentro del 25%: Si
Posición de publicación: 50
Num. revistas en cat.: 50
Fuente de citas: WOS
Citas: 22

Resultados relevantes: There is a body of evidence suggesting that Ca(2+) handling proteins assemble into signaling complexes required for a fine regulation of Ca(2+) signals, events that regulate a variety of critical cellular processes. Canonical transient receptor potential (TRPC) and Orai proteins have both been proposed to form Ca(2+)-permeable channels mediating Ca(2+) entry upon agonist stimulation. A number of studies have demonstrated that inositol 1,4,5-trisphosphate receptors (IP(3)Rs) interact with plasma membrane TRPC channels; however, at present there is no evidence supporting the interaction between Orai proteins and IP(3)Rs. Here we report that treatment with thapsigargin or cellular agonists results in association of Orai1 with types I and II IP(3)Rs. In addition, we have found that TRPC3, RACK1 (receptor for activated protein kinase C-1), and STIM1 (stromal interaction molecule 1) interact with Orai1 upon stimulation with agonists. TRPC3 expression silencing prevented both the interaction of Orai1 with TRPC3 and, more interestingly, the association of Orai1 with the type I IP(3)R, but not with the type II IP(3)R, thus suggesting that TRPC3 selectively mediates interaction between Orai1 and type I IP(3)R. In addition, TRPC3 expression silencing attenuated ATP- and CCh-stimulated interaction between RACK1 and the type I IP(3)R, as well as Ca(2+) release and entry. In conclusion, our results indicate that agonist stimulation results in the formation of an Orai1-STIM1-TRPC3-RACK1-type I IP(3)R complex, where TRPC3 plays a central role. This Ca(2+) signaling complex might be important for both agonist-induced Ca(2+) release and entry.

64 Juan A. Rosado; Jose A. Pariente; Gines M. Salido; Pedro C. Redondo. SERCA2b Activity Is Regulated by Cyclophilins in Human Platelets. ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. 30 - 3, pp. 419 - U105. PHILADELPHIA(Estados Unidos de América): LIPPINCOTT WILLIAMS & WILKINS, 01/03/2010. Disponible en Internet en: <http://atvb.ahajournals.org/content/30/3/419.long>. ISSN 1079-5642

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PERIPHERAL VASCULAR DISEASE
Índice de impacto: 7.215
Revista dentro del 25%: Si
Posición de publicación: 3
Num. revistas en cat.: 3
Fuente de citas: WOS
Citas: 7

Resultados relevantes: Cyclophilin inhibition by cyclosporin A (CsA) evoked a time- and concentration-dependent reduction of Ca(2+) uptake by SERCA2b. However, other Ca(2+)-adenosine triphosphatases expressed in platelets, such as SERCA3 and plasma membrane Ca(2+) adenosine triphophatase, remained unaltered after CsA treatment. Cypermethrin, a non-CsA-related calcineurin inhibitor, did not alter SERCA2b activity. Furthermore, SERCA2b was affected by other CsA analogues, which do not interfere with calcineurin, such as PKF-211-811-NX5 (NIM811) and sanglifehrin A. Inhibition of the immunophilin family members using FK506 (tacrolimus) did not alter SERCA2b ability to sequester Ca(2+) into the dense tubular system. Coimmunoprecipitation experiments confirmed that cyclophilin A associates with SERCA2b and stromal interaction molecule-1 in resting platelets. This interaction is attenuated by the physiological agonist thrombin but enhanced by treatment with CsA or sanglifehrin A.

65 Juan J. Rubal; F. Javier Moreno-Dorado; Francisco M. Guerra; Zacarias D. Jorge; Maria del Carmen Galan; Gines M. Salido; Soren B. Christensen; Helmer Sohoel; Guillermo M. Massanet. A Phenylpropanoid, a Slovenolide, Two Sulphur-Containing Germacranes and Ca2+-ATPase Inhibitors from Thapsia villosa. PLANTA MEDICA. 76 - 3, pp. 284 - 290. STUTTGART(Alemania): GEORG THIEME VERLAG KG, 01/02/2010. Disponible en Internet en: <https://www.thieme-connect.com/DOI/DOI?10.1055/s-0029-1186056>. ISSN 0032-0943

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PLANT SCIENCES
Índice de impacto: 2.369
Revista dentro del 25%: Si
Posición de publicación: 45
Num. revistas en cat.: 188

Fuente de citas: WOS
Citas: 1

Resultados relevantes: A phenylpropanoid 1, a slovenolide 2, and two germacranes bearing a methylthiopropenoate moiety, 3 and 4, along with twenty known metabolites have been isolated from the roots of Thapsia villosa var. villosa L. The structures of two known phenylpropanoids 5 and 6 have been corrected. Compounds 7 and 8 showed activity as potential inhibitors of the sarco- and endoplasmic Ca(2+)-dependent ATPases (SERCA) pump. Compounds 9, 10 and 11 increased significantly the cytoplasmic free calcium concentration ([Ca(2+)](c)) in human platelets in a concentration-dependent manner.

66 Laura Chapado; Pablo J. Linares-Palomino; Sofia Salido; Joaquin Altarejos; Juan A. Rosado; Gines M. Salido. Synthesis and evaluation of the platelet antiaggregant properties of phenolic antioxidants structurally related to rosmarinic acid. BIOORGANIC CHEMISTRY. 38 - 1-3, pp. 108 - 114. San Diego(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/02/2010. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0045206809000959>. ISSN 0045-2068

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CHEMISTRY, ORGANIC
Índice de impacto: 1.466
Revista dentro del 25%: No
Posición de publicación: 32
Num. revistas en cat.: 32

Fuente de citas: WOS
Citas: 3

Resultados relevantes: Polyphenols, such as rosmarinic acid, are widely distributed natural products with relevant antioxidant activity. Oxidative stress plays an important role in the pathogenesis of a number of disorders. Here, we report on the synthesis and biological effects of the polyphenolic esters hydroxytyrosyl gallate (1), hydroxytyrosyl protocatechuate (2) and hydroxytyrosyl caffeate (3), structurally related to rosmarinic acid. The three compounds showed a greater free radical scavenging activity than their precursors and also than rosmarinic acid. Esters 1 and 3 significantly reduced thrombin-evoked platelet aggregation, which is likely mediated to the attenuation of thrombin-stimulated Ca(2+) release and entry. The three compounds reduced the ability of platelets to accumulate Ca(2+) in the intracellular stores, probably by enhancing the Ca(2+) leakage rate and reduced store-operated Ca(2+) entry in these cells. These observations suggest that the structurally-simplified analogs to rosmarinic acid, compounds 1 and 3, might be the base of therapeutic strategies to prevent thrombotic complications associated to platelet hyperaggregability due to oxidative stress.

67 Marcela Fernandez-Sanchez; Angel del Castillo-Vaquero; Gines M. Salido; Antonio Gonzalez. Ethanol exerts dual effects on calcium homeostasis in CCK-8-stimulated mouse pancreatic acinar cells. BMC CELL BIOLOGY. 10, LONDON(Reino Unido): BIOMED CENTRAL LTD, 01/10/2009. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2777139/>. ISSN 1471-2121

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 2.654
Revista dentro del 25%: No
Posición de publicación: 95
Num. revistas en cat.: 162

Fuente de citas: WOS
Citas: 4

Resultados relevantes: BACKGROUND: A significant percentage of patients with pancreatitis often presents a history of excessive alcohol consumption. Nevertheless, the patho-physiological effect of ethanol on pancreatitis remains poorly understood. In the present study, we have investigated the early effects of acute ethanol exposure on CCK-8-evoked Ca2+ signals in mouse pancreatic acinar cells. Changes in [Ca2+]i and ROS production were analyzed employing fluorescence techniques after loading cells with fura-2 or CM-H2DCFDA, respectively. RESULTS: Ethanol, in the concentration range from 1 to 50 mM, evoked an oscillatory pattern in [Ca2+]i. In addition, ethanol evoked reactive oxygen species generation (ROS) production. Stimulation of cells with 1 nM or 20 pM CCK-8, respectively led to a transient change and oscillations in [Ca2+]i. In the presence of ethanol a transformation of 20 pM CCK-8-evoked physiological oscillations into a single transient increase in [Ca2+]i in the majority of cells was observed. Whereas, in response to 1 nM CCK-8, the total Ca2+ mobilization was significantly increased by ethanol pre-treatment. Preincubation of cells with 1 mM 4-MP, an inhibitor of alcohol dehydrogenase, or 10 microM of the antioxidant cinnamtannin B-1, reverted the effect of ethanol on total Ca2+ mobilization evoked by 1 nM CCK-8. Cinnamtannin B-1 blocked ethanol-evoked ROS production. CONCLUSION: ethanol may lead, either directly or through ROS generation, to an over stimulation of pancreatic acinar cells in response to CCK-8, resulting in a higher Ca2+ mobilization compared to normal conditions. The actions of ethanol on CCK-8-stimulation of cells create a situation potentially leading to Ca2+ overload, which is a common pathological precursor that mediates pancreatitis.

68 Nidhal Ben Amor; Hanene Zbidi; Aicha Bouaziz; Jardin Isaac; Juan M. Hernandez-Cruz; Gines M. Salido; Juan A. Rosado; Aghleb Bartegi. Acidic-store depletion is required for human platelet aggregation. BLOOD COAGULATION \& FIBRINOLYSIS. 20 - 7, pp. 511 - 516. PHILADELPHIA(Estados Unidos de América): LIPPINCOTT WILLIAMS \& WILKINS, 01/10/2009. Disponible en Internet en: <http://journals.lww.com/bloodcoagulation/pages/articleviewer.aspx?year=2009&issue=10000&article=00005&type=abstract>. ISSN 0957-5235

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - HEMATOLOGY
Índice de impacto: 1.246
Revista dentro del 25%: No
Posición de publicación: 52
Num. revistas en cat.: 52

Fuente de citas: WOS
Citas: 2

Resultados relevantes: Platelet stimulation with thrombin induces an elevation in cytoplasmic free Ca(2+) concentration ([Ca(2+)]c) due to Ca(2+) release from intracellular stores and entry from the extracellular medium. Two different intracellular Ca(2+) stores have been described in human platelets: the dense tubular system and the lysosomal-like acidic stores. In the present study, we investigated the contribution of the acidic stores in thrombin-induced platelet aggregation. We have found that platelet aggregation induced by thrombin is reduced in a Ca(2+)-free medium. Discharge of the acidic Ca(2+) stores by treatment with the sarcoendoplasmic Ca(2+)-ATPase (SERCA)3 selective inhibitor 2,5-di-(tert-butyl)-1,4-hydroquinone reduced thrombin-evoked platelet aggregation. In the presence of 2,5-di-(tert-butyl)-1,4-hydroquinone, platelet aggregation induced by the protease-activated receptor (PAR)-1 and PAR-4 agonist peptides, SFLLRN and AYPGKF, respectively, was significantly reduced. In cells with depleted acidic stores, activation of GPIb-IX-V by thrombin resulted in reduced

or no platelet aggregation in a medium containing 1 mmol/l Caor in a Ca(2+)-free medium, respectively. This finding suggests that Ca(2+) accumulation in the acidic Ca(2+) compartments is required for platelet aggregation induced by activation of the G-coupled PAR-1 and PAR-4 thrombin receptors and, by the occupation of the leucine-rich glycoprotein GPIb-IX-V and provide evidence supporting a functional role of the lysosomal-like acidic Ca(2+) stores in human platelets.

69 C. Galan; H. Zbidi; A. Bartegi; G. M. Salido; J. A. Rosado. STIM1, Orai1 and hTRPC1 are important for thrombin- and ADP-induced aggregation in human platelets. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 490 - 2, pp. 137 - 144. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/10/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0003986109002665>. ISSN 0003-9861

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 3.046
Revista dentro del 25%: No
Posición de publicación: 28
Num. revistas en cat.: 28
Fuente de citas: WOS
Citas: 8

Resultados relevantes: Ca(2+) entry, particularly store-operated Ca(2+) entry (SOCE), has been reported to be crucial for a variety of cellular functions. SOCE is a mechanism regulated by the Ca(2+) content of the stores, where the intraluminal Ca(2+) sensor STromal Interaction Molecule 1 (STIM1) has been reported to communicate the filling state of the intracellular Ca(2+) stores to the store-operated Ca(2+)-permeable channels in the plasma membrane, likely involving Orai1 and TRPC proteins, such as TRPC1. Here we have investigated the role of Orai1, STIM1 and TRPC1 in platelet aggregation, an event that occurs during the process of thrombosis and hemostasis. Electrotransjection of cells with anti-STIM1 (25-139) antibody, directed towards the Ca(2+)-binding motif, significantly reduced thrombin-induced aggregation and prevented ADP-evoked response. Extracellular application of the anti-STIM1 antibody, in order to block the function of plasma membrane-located STIM1, reduced thrombin- and ADP-stimulated platelet aggregation to a lesser extent. Introduction of an anti-Orai1 (288-301) antibody, which binds the STIM1-binding site located in the Orai1 C-terminus, or extracellular application of anti-hTRPC1 (557-571) antibody to impair hTRPC1 channel function, significantly reduced thrombin- and ADP-induced platelet aggregation. These findings suggest a role of STIM1, Orai1 and hTRPC1 in thrombin- and ADP-induced platelet aggregation probably through the regulation of Ca(2+) entry, which might become targets for the development of therapeutic strategies to treat platelet hyperactivity and thrombosis disorders.

70 Isaac Jardin; Jose J. Lopez; Pedro C. Redondo; Gines M. Salido; Juan A. Rosado. Store-operated Ca2+ entry is sensitive to the extracellular Ca2+ concentration through plasma membrane STIM1. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1793 - 10, pp. 1614 - 1622. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/10/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488909001864>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.374
Posición de publicación: 64
Num. revistas en cat.: 64
Fuente de citas: WOS
Citas: 10

Resultados relevantes: Store-operated Ca(2+) entry (SOCE) is a major mechanism for Ca(2+) influx in platelets and other cells activated by a reduction in Ca(2+) concentration in the intracellular stores. SOCE has been reported to be regulated by extracellular Ca(2+), although the underlying mechanism remains unclear. Here we have examined the involvement of plasma membrane-located STIM1 (PM-STIM1) in the regulation of SOCE by extracellular Ca(2+). Treatment of platelets with the SERCA inhibitor thapsigargin (TG) induced Mn(2+) entry, which was inhibited by extracellular Ca(2+) in a concentration-dependent manner. Incubation of platelets with a specific antibody, which recognizes the extracellular amino acid sequence 25-139 of PM-STIM1 that contains the

Ca(2+)-binding domain, prevented the inactivation of Ca(2+) entry induced by extracellular Ca(2+). TG induced translocation of STIM1 to the plasma membrane (PM), an event that was found to be Ca(2+)-dependent. In addition, TG stimulated association of PM-STIM1 with Orai1, an event that was not prevented by stabilization of the membrane cytoskeleton using jasplakinolide. These findings suggest that PM-STIM1 is important for the inactivation of SOCE by extracellular Ca(2+), an event that is likely to be mediated by interaction with Orai1.

71 Hanene Zbidi; Jose J. Lopez; Nidhal Ben Amor; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Enhanced expression of STIM1/Orail and TRPC3 in platelets from patients with type 2 diabetes mellitus. BLOOD CELLS MOLECULES AND DISEASES. 43 - 2, pp. 211 - 213. San Diego(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/09/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1079979609001065>. ISSN 1079-9796

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - HEMATOLOGY
Índice de impacto: 2.901
Revista dentro del 25%: No
Posición de publicación: 25
Num. revistas en cat.: 25
Fuente de citas: WOS
Citas: 10

Resultados relevantes: Type 2 diabetes mellitus (DM2) is a metabolic syndrome that contributes to both macrovascular and microvascular disorders, where platelet hyperaggregability, associated to abnormal intracellular Ca(2+) homeostasis, plays an important role. We have now investigated the expression of different proteins associated to Ca(2+) entry, a major Ca(2+) signalling event. DM2 donors were randomly selected from normotensive patients with glycosylated Hb levels (HbA1c) over 6%. Control subjects were normal age- and gender-matched healthy people with HbA1c levels in the normal range (3.5-5%). Expression of TRPC1, 3 and 6, STIM1 and Orai1 was analyzed by Western blotting in DM2 patients and controls. Expression of TRPC1 in platelets from DM2 donors and controls was similar; however, expression of TRPC6 is reduced in platelets from DM2 patients as compared to healthy controls. We have found that expression of TRPC3, Orai1 and STIM1 is enhanced in DM2 subjects as compared to controls. Our findings provide an explanation to the enhanced Ca(2+) entry induced by physiological agonists in platelets from DM2 patients.

72 J. J. Lopez; P. C. Redondo; G. M. Salido; J. A. Pariente; J. A. Rosado. N,N,N',N'-tetrakis(2-pyridylmethyl)ethylenediamine induces apoptosis through the activation of caspases-3 and-8 in human platelets. A role for endoplasmic reticulum stress. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 7 - 6, pp. 992 - 999. Malden(Estados Unidos de América): WILEY-BLACKWELL PUBLISHING, INC, 01/06/2009. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2009.03431.x/abstract;jsessionid=546F692B491D322722F167997D5BEF29.d02t04>. ISSN 1538-7933

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PERIPHERAL VASCULAR DISEASE
Índice de impacto: 6.069
Revista dentro del 25%: Si
Posición de publicación: 7
Num. revistas en cat.: 7
Fuente de citas: WOS
Citas: 16

Resultados relevantes: Our results indicate that TPEN reduces the amount of free Ca(2+) releasable by the Ca(2+)-mobilizing agonist thrombin. TPEN induced activation of caspase-3, -8 and -9 and subsequent phosphatidylserine externalization. The ability of TPEN to induce phosphatidylserine externalization was smaller than that of thrombin. In addition, TPEN was able to induce phosphorylation of the eukaryotic initiation factor 2 alpha (eIF2 alpha). TPEN-mediated caspase-3 activation requires functional caspase-8, but is independent of H(2)O(2) generation. Activation of caspase-3 and -8 by TPEN was prevented by salubrinal, an agent that prevents ER stress-induced apoptosis.

73 Isaac Jardin; Luis J. Gomez; Gines M. Salido; Juan A. Rosado. Dynamic interaction of hTRPC6 with the Orai1-STIM1 complex or hTRPC3 mediates its role in capacitative or non-capacitative Ca2+ entry pathways. BIOCHEMICAL JOURNAL. 420 - Part 2, pp. 267 - 276. Londres, Inner London(Reino Unido): PORTLAND PRESS LTD, 01/06/2009. Disponible en Internet en: <http://www.biochemj.org/bj/420/0267/bj4200267.htm>. ISSN 0264-6021

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.155
Revista dentro del 25%: Si
Posición de publicación: 50
Num. revistas en cat.: 50
Fuente de citas: WOS
Citas: 24

Resultados relevantes: TRPC (canonical transient receptor potential) channel subunits have been shown to assemble into homo- or hetero-meric channel complexes, including different Ca2+-handling proteins, required for the activation of CCE (capacitative Ca2+ entry) or NCCE (non-CCE) pathways. In the present study we found evidence for the dynamic interaction between endogenously expressed hTRPC6 (human TRPC6) with either both Orai1 and STIM1 (stromal interaction molecule 1) or hTRPC3 to participate in CCE or NCCE. Electrotransjection of cells with an anti-hTRPC6 antibody, directed towards the C-terminal region, reduces CCE induced by TPEN [N,N,N',N'-tetrakis-(2-pyridylmethyl)-ethylenediamine], which reduces the intraluminal free Ca2+ concentration. Cell stimulation with thrombin or extensive Ca2+-store depletion by TG (thapsigargin)+ionomycin enhanced the interaction between hTRPC6 and the CCE proteins Orai1 and STIM1. In contrast, stimulation with the diacylglycerol analogue OAG (1-oleoyl-2-acetyl-sn-glycerol) displaces hTRPC6 from Orai1 and STIM1 and enhances the association between hTRPC6 and hTRPC3. The interaction between hTRPC6 and hTRPC3 was abolished by dimethyl-BAPTA [1,2-bis-(o-aminophenoxy)ethane-N,N,N',N'-tetra-acetic acid] loading, which indicates that this phenomenon is Ca2+-dependent. These findings support the hypothesis that hTRPC6 participates both in CCE and NCCE through its interaction with the Orai1-STIM1 complex or hTRPC3 respectively.

74 L. Gonzalez-Fernandez; C. Ortega-Ferrusola; B. Macias-Garcia; G. M. Salido; F. J. Pena; J. A. Tapia. Identification of Protein Tyrosine Phosphatases and Dual-Specificity Phosphatases in Mammalian Spermatozoa and Their Role in Sperm Motility and Protein Tyrosine Phosphorylation. BIOLOGY OF REPRODUCTION. 80 - 6, pp. 1239 - 1252. MADISON(Estados Unidos de América): SOC STUDY REPRODUCTION, 01/06/2009. Disponible en Internet en: <http://www.biolreprod.org/content/80/6/1239.long>. ISSN 0006-3363

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - REPRODUCTIVE BIOLOGY
Índice de impacto: 3.300
Revista dentro del 25%: Si
Posición de publicación: 5
Num. revistas en cat.: 26
Fuente de citas: WOS
Citas: 14

Resultados relevantes: Protein tyrosine kinases have important roles in spermatozoa; however, little is known about the presence and regulation in these cells of their counterparts in signaling, namely, protein tyrosine phosphatases (PTPs) and dual-specificity phosphatases (DSPs). The objectives of the present study were to identify PTPs and DSPs in boar, stallion, and dog spermatozoa; to characterize their subcellular distribution; and to investigate the roles of tyrosine phosphatases in maintenance of protein tyrosine phosphorylation level and in sperm motility. Using Western blotting with specific antibodies in boar and stallion sperm lysates, we unequivocally identified two PTPs (PTPRB and PTPN11) and two DSPs (DUSP3 and DUSP4). In dog sperm lysates, only PTPN11, DUSP3, and DUSP4 were detected. In all these species, we did not detect the specific signal with anti-PTPRC (CD45), CDKN3, DUSP1, DUSP2, DUSP6, DUSP9, PTPN1, PTPN3, PTPN6, PTPN7, PTPN13, PTPRA, PTPRG, PTPRJ, PTPRK, or PTPRZ antibodies. Positive matches were further investigated by indirect immunofluorescence and confocal microscopy. Results showed that PTPRB was associated with the plasma membrane in the head and tail of boar and stallion spermatozoa. In agreement with Western blotting

results, PTPRB antibodies did not show immunoreactivity in dog sperm analyzed by immunofluorescence. In the three species, DUSP4 was mainly found in the tail of spermatozoa, with little or no immunoreactivity in the head. PTPN11 was mainly located in the postacrosomal region in the head, whereas DUSP3 immunoreactivity was extended within the acrosome. PTPN11 and DUSP3 showed immunoreactivity in the tail that was restricted to the midpiece. Finally, we incubated boar, stallion, and dog spermatozoa with pervanadate and sodium orthovanadate, two PTP inhibitors, and analyzed overall protein tyrosine phosphorylation and assessed sperm motility. Sodium orthovanadate and pervanadate showed concentration-dependent inhibition of sperm motility that was rapid and reversible. Pervanadate also increased tyrosine phosphorylation of different proteins in capacitated and noncapacitated spermatozoa. Results showed that the phosphatases PTPN11, DUSP4, and DUSP3 are present in boar, stallion, and dog spermatozoa. PTPRB is also present in boar and stallion spermatozoa but was not detected in dog. The subcellular distribution of the identified phosphatases is diverse, suggesting that they likely have specific roles in sperm. Finally, PTP activity has a positive role in the regulation of motility and is involved in protein tyrosine phosphorylation in mammalian sperm.

75 Hanene Zbidi; Sofia Salido; Joaquin Altarejos; Mercedes Perez-Bonilla; Aghleb Bartegi; Juan A. Rosado; Gines M. Salido. Olive tree wood phenolic compounds with human platelet antiaggregant properties. BLOOD CELLS MOLECULES AND DISEASES. 42 - 3, pp. 279 - 285. San Diego(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/05/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1079979609001065>. ISSN 1079-9796

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - HEMATOLOGY
Índice de impacto: 2.901
Revista dentro del 25%: No
Posición de publicación: 26
Num. revistas en cat.: 26
Fuente de citas: WOS
Citas: 11

Resultados relevantes: Oleuropein and (+)-cycloolivil are natural polyphenolic compounds with a significant radical scavenging activity present in olive tree. We have investigated the antiaggregant effects of oleuropein and (+)-cycloolivil isolated from an ethyl acetate extract of olive tree wood. Oleuropein and (+)-cycloolivil reduced the ability of thrombin to stimulate platelet aggregation. Both compounds reduced thrombin-evoked Ca(2+) release and entry to a similar extent to hydroxytyrosol. This effect was greater in platelets from patients with type 2 diabetes mellitus than in controls. Thrombin-, thapsigargin- and 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-evoked protein tyrosine phosphorylation, which is involved in Ca(2+) signalling and platelet aggregation, is inhibited by oleuropein and (+)-cycloolivil. oleuropein and (+)-cycloolivil are natural oxygen radical scavengers that reduce thrombin-induced protein tyrosine phosphorylation, Ca(2+) signalling and platelet aggregation. These observations suggest that oleuropein and (+)-cycloolivil may prevent thrombotic complications associated to platelet hyperaggregability and be the base for the development of antiaggregant therapeutic strategies.

76 Natalia Dionisio; Maria V. Garcia-Mediavilla; Sonia Sanchez-Campos; Pedro L. Majano; Ignacio Benedicto; Juan A. Rosado; Gines M. Salido; Javier Gonzalez-Gallego. Hepatitis C virus NS5A and core proteins induce oxidative stress-mediated calcium signalling alterations in hepatocytes. JOURNAL OF HEPATOLOGY. 50 - 5, pp. 872 - 882. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/05/2009. Disponible en Internet en: <http://www.journal-of-hepatology.eu/article/S0168-8278%2809%2900085-3/abstract>. ISSN 0168-8278

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - GASTROENTEROLOGY & HEPATOLOGY
Índice de impacto: 7.818
Revista dentro del 25%: Si
Posición de publicación: 4
Num. revistas en cat.: 4
Fuente de citas: WOS
Citas: 24

Resultados relevantes: Cells transfected with NS5A and core proteins showed enhanced ROS/RNS production and resting cytosolic Ca(2+) concentration, and reduced Ca(2+) concentration into the stores.

Phenylephrine-evoked Ca(2+) release, Ca(2+) entry and extrusion by the plasma membrane Ca(2+)-ATPase were significantly reduced in transfected cells. Similar effects were observed in cytokine-activated cells. Phenylephrine-evoked actin reorganization was reduced in the presence of core and NS5A proteins. These effects were significantly prevented by quercetin. Altered Ca(2+) mobilization and increased calpain activation were observed in replicon-containing cells.

77 Gines M. Salido; Stewart O. Sage; Juan A. Rosado. Biochemical and functional properties of the store-operated Ca(2+) channels. CELLULAR SIGNALLING. 21 - 4, pp. 457 - 461. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/04/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656808003379>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.094
Revista dentro del 25%: No
Posición de publicación: 59
Num. revistas en cat.: 59
Fuente de citas: WOS
Citas: 24

Resultados relevantes: Store-operated calcium entry (SOCE) is a major mechanism for Ca(2+) entry in excitable and non-excitable cells. The best-characterised store-operated current is I(CRAC), but other currents activated by Ca(2+) store depletion have also been reported. The recent identification of the proteins stromal interaction molecule 1 (STIM1) and Orai1 has shed new light on the nature and regulation of SOC channels. STIM1 has been presented as the endoplasmic reticulum (ER) Ca(2+) sensor that communicates the content of the Ca(2+) stores to the store-operated channels, a mechanism that involves redistribution of STIM1 to peripheral ER sites and co-clustering with the Ca(2+) channel subunit, Orai1. Interestingly, TRPC1, which has long been proposed as a SOC channel candidate, associates with Orai1 and STIM1 in a ternary complex that appears to increase the variability of SOC currents available to modulate cell function.

78 Gines M. Salido; Stewart O. Sage; Juan A. Rosado. TRPC channels and store-operated Ca2+ entry. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1793 - 2, pp. 223 - 230. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/02/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S016748890800373X>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.374
Revista dentro del 25%: Si
Posición de publicación: 64
Num. revistas en cat.: 64
Fuente de citas: WOS
Citas: 33

Resultados relevantes: Store-operated calcium entry (SOCE) is a major mechanism for Ca(2+) influx. Since SOCE was first proposed two decades ago many techniques have been used in attempting to identify the nature of store-operated Ca(2+) (SOC) channels. The first identified and best-characterised store-operated current is I(CRAC), but a number of other currents activated by Ca(2+) store depletion have also been described. TRPC proteins have long been proposed as SOC channel candidates; however, whether any of the TRPCs function as SOC channels remains controversial. This review attempts to provide an overview of the arguments in favour and against the role of TRPC proteins in the store-operated mechanisms of agonist-activated Ca(2+) entry.

79 Antonio Gonzalez; Gines M. Salido. ETHANOL ALTERS THE PHYSIOLOGY OF NEURON-GLIA COMMUNICATION. NEW CONCEPTS OF PSYCHOSTIMULANTS INDUCED NEUROTOXICITY. 88, pp. 167+ - 167+. SAN DIEGO(Estados Unidos de América): ELSEVIER ACADEMIC PRESS INC, 01/01/2009. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0074774209880070>. ISSN 0074-7742, ISBN 978-0-12-374504-0

Colección: International Review of Neurobiology
Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de revisión
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - NEUROSCIENCES
Índice de impacto: 4.017
Revista dentro del 25%: No
Posición de publicación: 58
Num. revistas en cat.: 231
Fuente de citas: WOS
Citas: 4

Resultados relevantes: In the central nervous system (CNS), both neurones and astrocytes play crucial roles. On a cellular level, brain activity involves continuous interactions within complex cellular circuits established between neural cells and glia. Although it was initially considered that neurones were the major cell type in cerebral function, nowadays astrocytes are considered to contribute to cerebral function too. Astrocytes support normal neuronal activity, including synaptic function, by regulating the extracellular environment with respect to ions and neurotransmitters. There is a plethora of noxious agents which can lead to the development of alterations in organs and functional systems, and that will end in a chronic prognosis. Among the potentially harmful external agents we can find ethanol consumption, whose consequences have been recognized as a major public health concern. Deregulation of cell cycle has devastating effects on the integrity of cells, and has been closely associated with the development of pathologies which can lead to dysfunction and cell death. An alteration of normal neuronal-glial physiology could represent the basis of neurodegenerative processes. In this review we will pay attention on to the recent findings in astrocyte function and their role toward neurons under ethanol consumption.

80 G. M. Salido. Oxidative Stress, Intracellular Calcium Signals and Apoptotic Processes. Apoptosis: Involvement of Oxidative Stress and Intracellular Ca2+ Homeostasis. pp. 1 - 16. (Holanda): Springer Netherlands, 01/01/2009. Disponible en Internet en: <http://link.springer.com/chapter/10.1007%2F978-1-4020-9873-4_1?LI=true>. ISBN 978-1-4020-9872-7

Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 1
Grado de contribución: Editor/a o coeditor/a

Resultados relevantes: Apoptosis, an essential physiological process that is required for the normal development and maintenance of tissue homeostasis, is mediated by active intrinsic mechanisms, although extrinsic factors can also contribute. Aerobic metabolism induces the production of reactive oxygen species (ROS), which are able to induce oxidative stress that promotes cellular apoptosis. The mechanisms of ROS-induced modifications in ion transport pathways involves oxidation of sulphydryl groups located in the ion transport proteins, peroxidation of membrane phospholipids, inhibition of membrane-bound regulatory enzymes and modification of the oxidative phosphorylation and ATP levels. Alterations in the ion transport mechanisms lead to changes in a second messenger system, primary Ca2+ homeostasis. Ca2+ disregulation induces mitochondrial depolarization, which further augments the abnormal electrical activity and disturbs signal transduction, causing cell dysfunction and apoptosis. Control of ROS levels in cells is important, because cellular dysfunction triggered by ROS is a major factor contributing to the development of many diseases. Available evidences show that ROS can induce increases in cytosolic free Ca2+ concentration ([Ca2+]c) by release of the divalent cation from internal stores and impairment of Ca2+ clearance systems. In fact, [Ca2+]c increase is a constant feature of pathological states associated with oxidative stress and apoptosis

81 N. Alexandru; I. Jardin; D. Popov; M. Simionescu; J. Garcia-Estan; G. M. Salido; J. A. Rosado. Effect of homocysteine on calcium mobilization and platelet function in type 2 diabetes mellitus. JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 12 - 6B, pp. 2586 - 2597. Malden(Estados Unidos de América): WILEY-BLACKWELL PUBLISHING, INC, 01/12/2008. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1582-4934.2008.00200.x/abstract>. ISSN 1582-1838

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Índice de impacto: 5.114
Revista dentro del 25%: Si
Posición de publicación: 8
Num. revistas en cat.: 8

Fuente de citas: WOS **Citas:** 13

Resultados relevantes: Type 2 diabetes mellitus induces a characteristic platelet hyperactivity that might be due to several factors including oxidative stress and abnormal intracellular Ca(2+) homeostasis. Hyperhomocysteinaemia is considered a risk factor in the development of thrombosis although its effect on platelet function and the mechanisms involved are still poorly understood. Here we show that homocysteine induce a concentration-dependent increase in endogenous production of reactive oxygen species (ROS), which was significantly greater in platelets from diabetic patients than in controls. Platelet treatment with homocysteine resulted in Ca2+ release from the dense tubular system and the acidic stores. Ca2+ mobilization-induced by homocysteine consisted in two components, an initial slow increase in intracellular free Ca (+) concentration ([Ca2+]i) and a rapid and marked increase in [Ca2+]i, th second leading to the activation of platelet aggregation. As well as ROS generation, Ca2+ mobilization and platelet aggregation were significantly greater in platelets from diabetic donors than in controls, which indicate that platelets from diabetic donors are more sensitive to homocysteine. These findings, together with the hyperhomocysteinaemia reported in diabetic patients, strongly suggest that homocysteine might be considered a risk factor in the development of cardiovascular complications associated to type 2 diabetes mellitus.

82 Antonio Mata; Duarte Marques; Maria A. Martinez-Burgos; Joao Silveira; Joana Marques; Maria F. Mesquita; Jose A. Pariente; Gines M. Salido; Jaipaul Singh. Effect of hydrogen peroxide on secretory response, calcium mobilisation and caspase-3 activity in the isolated rat parotid gland. MOLECULAR AND CELLULAR BIOCHEMISTRY. 319 - 1-2, pp. 23 - 31. DORDRECHT(Holanda): SPRINGER, 01/12/2008. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs11010-008-9873-7>. ISSN 0300-8177

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 8 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Cell Biology
Índice de impacto: 1.764 **Revista dentro del 25%:** No
Posición de publicación: 125 **Num. revistas en cat.:** 157

Fuente de citas: WOS **Citas:** 2

Resultados relevantes: The parotid glands are highly active secretory systems subjected to continuous stress, which in turn, can lead to several pathophysiological conditions. Damage of the parotid glands are caused by radical oxygen species (ROS) as by-products of oxygen metabolism. This study investigated the effect of hydrogen peroxide (H(2)O(2)) on Carbachol (CCh)-evoked secretory responses and caspase-3 activity in the isolated rat parotid gland to understand the role of oxidative stress on the function of the gland. Amylase secretion, cytosolic calcium concentration ([Ca(2+)](i)) and caspase-3 activity in parotid gland tissue were measured using fluorimetric methods. H(2)O(2) had little or no effect on amylase secretion compared to basal level. Combining H(2)O(2) with CCh resulted in an attenuation of the CCh-evoked amylase secretion compared to the effect of CCh alone. CCh can evoke a large increase in [Ca(2+)](i) comprising an initial peak followed by a plateau. In a Ca(2+)-free medium containing 1 mM EGTA, CCh evoked only the initial peak of [Ca(2+)](i). H(2)O(2) alone evoked a gradual and dose-dependent increase in [Ca(2+)](i). Combining H(2)O(2) with CCh resulted in a decrease in [Ca(2+)](i) compared to the effect of CCh alone. In a Ca(2+)-free medium, H(2)O(2) still evoked a small increase in [Ca(2+)](i), but this response was less compared to the results obtained with H(2)O(2) in normal [Ca(2+)](0). Combining H(2)O(2) with CCh resulted in only a small transient increase in [Ca(2+)](i). Following CCh stimulation, H(2)O(2) application resulted in a large increase in [Ca(2+)](i) in normal [Ca(2+)](0). This effect of H(2)O(2) was partially abolished in a nominally free Calcium medium containing EGTA. H(2)O(2) can stimulate caspase-3 activity in parotid gland tissue. Similar response was obtained with betulinic acid and thapsigargin (TPS) on caspase-3 activity compared to basal. The results have demonstrated that like CCh, H(2)O(2) can also mobilise Ca(2+) from intracellular stores and facilitate its influx into the cell from extracellular medium. This effect of H(2)O(2) may be due to its activity to induce apoptosis in the parotid gland, since H(2)O(2) can stimulate the activity of caspase-3, a marker of cellular apoptosis.

83 Antonio Gonzalez; Jose A. Pariente; Gines M. Salido. Ethanol impairs calcium homeostasis following CCK-8 stimulation in mouse pancreatic acinar cells. ALCOHOL. 42 - 7, pp. 565 - 573. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/11/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0741832908002644?via=ihub>. ISSN 0741-8329

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - TOXICOLOGY
Índice de impacto: 2.363
Revista dentro del 25%: No
Posición de publicación: 31
Num. revistas en cat.: 75

Fuente de citas: WOS
Citas: 11

Resultados relevantes: Alcohol consumption has long been associated with cell damage, and it is thought that it is involved in approximately 40% of cases of acute pancreatitis. In the present study, we have investigated the early effects of acute ethanol exposure on cholecystokinin octapeptide (CCK-8)-evoked calcium (Ca2+) signals in mouse pancreatic acinar cells. Cells were loaded with fura-2 and the changes in fluorescence were monitorized using a spectrofluorimeter. Our results show that stimulation of cells with 1 nM CCK-8 led to a transient increase in [Ca2+]c, which consisted of an initial increase followed by a decrease of [Ca2+]c toward a value close to the prestimulation level. In the presence of 50mM ethanol, CCK-8 lead to a greater Ca2+ mobilization compared to that obtained with CCK-8 alone. The peak of CCK-8-evoked Ca2+ response, the "steady-state level" reached 5 min after stimulation, the rate of decay of [Ca2+]c toward basal values and the total Ca2+ mobilization were significantly affected by ethanol pretreatment. Thapsigargin (Tps) induced an increase in [Ca2+]c due to its release from intracellular stores. After stimulation of cells with CCK-8 or Tps in the presence of 50mM ethanol, a greater [Ca2+]c peak response, a slower rate of decay of [Ca2+]c, and higher values of [Ca2+]c were observed. The effects of ethanol might result from a delayed or reduced Ca2+ extrusion from the cytosol toward the extracellular space by plasma membrane Ca2+ adenosine triphosphatase (ATPase), or into the cytosolic stores by the sarcoendoplasmic reticulum Ca2+-ATPase. Participation of mitochondria in Ca2+ handling is also demonstrated. The actions of ethanol on CCK-8 stimulation of cells create a situation potentially leading to Ca2+ overload, which is a common pathological precursor that mediates pancreatitis

84 J. J. Lopez; G. M. Salido; J. A. Pariente; J. A. Rosado. Thrombin induces activation and translocation of Bid, Bax and Bak to the mitochondria in human platelets. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 6 - 10, pp. 1780 - 1788. Malden(Estados Unidos de América): WILEY-BLACKWELL, 01/10/2008. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2008.03111.x/abstract>. ISSN 1538-7933

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PERIPHERAL VASCULAR DISEASE
Índice de impacto: 6.291
Revista dentro del 25%: Si
Posición de publicación: 8
Num. revistas en cat.: 8

Fuente de citas: WOS
Citas: 18

Resultados relevantes: Treatment of platelets with thrombin or ADP induces activation and mitochondrial association of active Bid, Bax and Bak. Translocation of Bid and Bax to the mitochondria was reduced by cytochalasin D, latrunculin A or jasplakinolide. Platelet exposure to exogenous H(2)O(2) (10 microm) results in activation of Bid and Bax, which was found to be similar to the effect of thrombin. Thrombin evokes mitochondrial membrane depolarization, which is attenuated by catalase.

85 P. C. Redondo; J. A. Rosado; G. M. Salido; S. O. Sage. Protein complex immunological separation assay (ProCISA): a technique for investigating single protein properties. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 64 - 3, pp. 169 - 177. Pamplona, Comunidad Foral de Navarra(España): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 01/09/2008. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03178839?LI=true>. ISSN 1138-7548

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY

Índice de impacto: 1.172
Posición de publicación: 60
Revista dentro del 25%: No
Num. revistas en cat.: 60

Fuente de citas: WOS
Citas: 0

Resultados relevantes: Analysis of the posttranslational modification of proteins, such as phosphorylation, might yield misleading results due to the presence of other proteins with similar electrophoretic properties that coimmunoprecipitate with the target protein. The aim of the present work was to develop a reliable, easy and economical technique to completely isolate a protein from its complex. Here we present a new assay developed to fully isolate proteins from macromolecular complexes that consists of an initial SDS/PAGE (under reducing conditions), which isolates the target protein, followed by transfer of the proteins to a buffer, from which the target protein is recaptured by conventional immunoprecipitation. This technique, that we have termed "Protein Complex Immunological Separation Assay" (ProCISA), successfully separated proteins of different sizes, such as pp60Src and the IP3 receptor (IP3R), from their complexes. We show that ProCISA allows the investigation of the tyrosine phosphorylation state of isolated proteins. This technique could also be used to study other posttranslational modifications without risk of misleading results resulting from contamination with other proteins of similar electrophoretic mobility which complex with the protein of interest.

86 Isaac Jardin; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Orai1 mediates the interaction between STIM1 and hTRPC1 and regulates the mode of activation of hTRPC1-forming Ca2+ channels. JOURNAL OF BIOLOGICAL CHEMISTRY. 283 - 37, pp. 25296 - 25304. BETHESDA(Estados Unidos de América): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/09/2008. Disponible en Internet en: <http://www.jbc.org/content/283/37/25296.long>. ISSN 0021-9258

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.520
Revista dentro del 25%: Si
Posición de publicación: 41
Num. revistas en cat.: 41

Fuente de citas: WOS
Citas: 60

Resultados relevantes: Orai1 and hTRPC1 have been presented as essential components of store-operated channels mediating highly Ca(2+) selective I(CRAC) and relatively Ca(2+) selective I(SOC), respectively. STIM1 has been proposed to communicate the Ca(2+) content of the intracellular Ca(2+) stores to the plasma membrane store-operated Ca(2+) channels. Here we present evidence for the dynamic interaction between endogenously expressed Orai1 and both STIM1 and hTRPC1 regulated by depletion of the intracellular Ca(2+) stores, using the pharmacological tools thapsigargin plus ionomycin, or by the physiological agonist thrombin, independently of extracellular Ca(2+). In addition we report that Orai1 mediates the communication between STIM1 and hTRPC1, which is essential for the mode of activation of hTRPC1-forming Ca(2+) permeable channels. Electrotransjection of cells with anti-Orai1 antibody, directed toward the C-terminal region that mediates the interaction with STIM1, and stabilization of an actin cortical barrier with jasplakinolide prevented the interaction between STIM1 and hTRPC1. Under these conditions hTRPC1 was no longer involved in store-operated calcium entry but in diacylglycerol-activated non-capacitative Ca(2+) entry. These findings support the functional role of the STIM1-Orai1-hTRPC1 complex in the activation of store-operated Ca(2+) entry.

87 Pedro C. Redondo; Isaac Jardin; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Intracellular Ca(2+) store depletion induces the formation of macromolecular complexes involving hTRPC1, hTRPC6, the type II IP(3) receptor and SERCA3 in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1783 - 6, pp. 1163 - 1176. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/06/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488907003138>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)

Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.893
Revista dentro del 25%: Si
Posición de publicación: 54
Num. revistas en cat.: 54

Fuente de citas: WOS
Citas: 26

Resultados relevantes: Endogenously expressed human canonical transient receptor potential 1 (hTRPC1) and human canonical transient receptor potential 6 (hTRPC6) have been shown to play a role in store-operated Ca2+ entry (SOCE) in human platelets, where two mechanisms for SOCE, regulated by the dense tubular system (DTS) or the acidic granules, have been identified. In cells preincubated for 1 min with 100 microM flufenamic acid we show that hTRPC6 is involved in SOCE activated by both mechanisms, as demonstrated by selective depletion of the DTS or the acidic stores, using thapsigargin (TG) (10 nM) or 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ) (20 microM), respectively, although it is more relevant after acidic store depletion. Co-immunoprecipitation experiments indicated that depletion of both stores separately results in time-dependent interaction between hTRPC1 and hTRPC6, and also between both hTRPCs and the type II IP3 receptor (IP3RII). The latter was greater after treatment with TG. TBHQ-induced coupling between hTRPC1 and 6 was transient and decreased after 30s of treatment, while that induced by TG increased for at least 3 min. TBHQ induced association between SERCA3, located in the acidic stores, hTRPC1, hTRPC6 and Orai1. TBHQ also evoked coupling between SERCA3 and IP3RII, presumably located in the DTS, thus suggesting interplay between both Ca2+ stores. Similarly, TG induces the interaction of SERCA2b with hTRPC1 and 6 and the IP3RII. The interactions between hTRPC1, hTRPC6, IP3RII and SERCA3 were impaired by disruption of the microtubules, supporting a role for microtubules in Ca2+ homeostasis. In conclusion, the present data demonstrate for the first time that hTRPC1, hTRPC6, IP3RII and SERCA3 are parts of a macromolecular protein complex activated by depletion of the intracellular Ca2+ stores in human platelets.

88 Geoffrey E. Woodard; Gines M. Salido; Juan A. Rosado. Enhanced exocytotic-like insertion of Orai1 into the plasma membrane upon intracellular Ca2+ store depletion. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. 294 - 6, pp. C1323 - C1331. BETHESDA(Estados Unidos de América): AMER PHYSIOLOGICAL SOC, 01/06/2008. Disponible en Internet en: <http://ajpcell.physiology.org/content/294/6/C1323.long>. ISSN 0363-6143

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 4.230
Revista dentro del 25%: Si
Posición de publicación: 9
Num. revistas en cat.: 9

Fuente de citas: WOS
Citas: 13

Resultados relevantes: Ca+ release-activated Ca2+ (CRAC) channels are activated when free Ca2+ concentration in the intracellular stores is substantially reduced and mediate sustained Ca2+ entry. Recent studies have identified Orai1 as a CRAC channel subunit. Here we demonstrate that passive Ca2+ store depletion using the inhibitor of the sarcoendoplasmic reticulum Ca2+-ATPase, thapsigargin (TG), enhances the surface expression of Orai1, a process that depends on rises in cytosolic free Ca2+ concentration, as demonstrated in cells loaded with dimethyl BAPTA, an intracellular Ca2+ chelator that prevented TG-evoked cytosolic free Ca2+ concentration elevation. Similar results were observed with a low concentration of carbachol. Cleavage of the soluble N-ethylmaleimide-sensitive-factor attachment protein receptor, synaptosomal-assiciated protein-25 (SNAP-25), with botulinum neurotoxin A impaired TG-induced increase in the surface expression of Orai1. In addition, SNAP-25 cleaving by botulinum neurotoxin A reduces the maintenance but not the initial stages of store-operated Ca2+ entry. In aggregate, these findings demonstrate that store depletion enhances Orai1 plasma membrane expression in an exocytotic manner that involves SNAP-25, a process that contributes to store-dependent Ca2+ entry.

89 Jose J. Lopez; Isaac Jardin; Regis Bobe; Jose A. Pariente; Jocelyne Enouf; Gines M. Salido; Juan A. Rosado. STIM1 regulates acidic Ca2+ store refilling by interaction with SERCA3 in human platelets. BIOCHEMICAL PHARMACOLOGY. 75 - 11, pp. 2157 - 2164. Oxford, Berkshire, Buckinghamshire and

Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/06/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295208001901>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 4.838
Revista dentro del 25%: Si
Posición de publicación: 19
Num. revistas en cat.: 19
Fuente de citas: WOS
Citas: 22

Resultados relevantes: Ca(2+) mobilization regulates a wide variety of cellular functions. Platelets possess agonist-releasable Ca(2+) stores in acidic organelles where sarcoendoplasmic reticulum Ca(2+)-ATPase-3 (SERCA) pump is involved in store refilling. Stromal interaction molecule 1 (STIM1), which has been presented as a central regulator of platelet function, is a Ca(2+) sensor of the intracellular Ca(2+) stores. Here we present that STIM1 is required for acidic store refilling. Electrotransjection of cells with anti-STIM1 (Y(231)-K(243)) antibody, directed towards a cytoplasmic sequence of STIM1, significantly reduced acidic store refilling, which was tested by remobilizing Ca(2+) from the acidic stores using 2,5-di-(t-butyl)-1,4-hydroquinone (TBHQ) after a brief refilling period that followed thrombin stimulation. Platelet treatment with thrombin or thapsigargin in combination with ionomycin, to induce extensive Ca(2+) store depletion, resulted in a transient increase in the interaction between STIM1 and SERCA3, reaching a maximum 30 s after stimulation. The coupling between STIM1 and SERCA3 was abolished by electrotransjection with anti-STIM1 antibody. The interaction between STIM1 and SERCA3 induced by thrombin or by treatment with thapsigargin plus ionomycin is reduced in platelets from type 2 diabetic patients, as well as Ca(2+) reuptake into the acidic Ca(2+) stores. These findings provide evidence for a role of STIM1 in acidic store refilling in platelets probably acting as a Ca(2+) sensor and regulating the activity of SERCA3. This action is impaired in platelets from type 2 diabetics, which might lead to the enhanced cytosolic Ca(2+) concentration observed and, therefore, in platelet hyperactivity.

90 Miguel Salazar; Jose A. Pariente; Gines M. Salido; Antonio Gonzalez. Ethanol induces glutamate secretion by Ca2+ mobilization and ROS generation in rat hippocampal astrocytes. NEUROCHEMISTRY INTERNATIONAL. 52 - 6, pp. 1061 - 1067. OXFORD(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/05/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0197018607003099>. ISSN 0197-0186

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - NEUROSCIENCES
Índice de impacto: 3.076
Revista dentro del 25%: No
Posición de publicación: 78
Num. revistas en cat.: 221
Fuente de citas: WOS
Citas: 16

Resultados relevantes: In this study we have investigated the effect of ethanol on [Ca2+]c by microfluorimetry and glutamate secretion using an enzyme-linked system, in rat hippocampal astrocytes in culture. Our results show that ethanol (1-200 mM) evoked a dose-dependent increase in glutamate secretion. 50 mM ethanol, a concentration within the range of blood alcohol levels in intoxicated humans, induced a release of Ca2+ from intracellular stores in the form of oscillations. Ca2+-mobilizing effect of ethanol was not prevented by preincubation of cells in the presence of 2 mM of the antioxidant dithiothreitol. Ethanol-evoked glutamate secretion was reduced when extracellular Ca2+ was omitted (medium containing 0.5 mM EGTA) and following preincubation of astrocytes in the presence of the intracellular Ca2+ chelator 1,2-bis-(o-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid tetraacetoxy-methyl ester (10 microM). Preincubation of astrocytes in the presence of 2 mM of the antioxidant dithiothreitol significantly reduced ethanol-evoked glutamate secretion. Finally, preincubation of astrocytes in the presence of bafilomycin (50 nM) significantly reduced ethanol-induced neurotransmitter release, indicating that exocytosis is involved in glutamate secretion. In conclusion, our results suggest that ethanol mobilizes Ca2+ from intracellular stores, and stimulates a Ca2+-dependent glutamate secretion, probably involving reactive oxygen species production, and therefore creating a situation potentially leading to neurotoxicity in the hippocampus.

91 Jose J. Lopez; Isaac Jardin; Gines M. Salido; Juan A. Rosado. Cinnarntannin B-1 as an antioxidant and platelet aggregation inhibitor. LIFE SCIENCES. 82 - 19-20, pp. 977 - 982. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/05/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0024320508001331>. ISSN 0024-3205

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Índice de impacto: 2.583
Revista dentro del 25%: No
Posición de publicación: 33
Num. revistas en cat.: 33
Fuente de citas: WOS
Citas: 4

Resultados relevantes: Cinnamtannin B-1 is a naturally occurring trimeric A-type proanthocyanidin, present in a limited number of plants, which exhibits a large number of cellular actions mostly derived from its antioxidant properties. Cinnamtannin B-1 modulates several biological processes such as changes in cytosolic free Ca(2+) concentration, endogenous reactive oxygen species generation, protein tyrosine phosphorylation and platelet aggregation. Proanthocyanidins, such as cinnamtannin B-1, have been reported to exert antitumoral activity mediated by a selective proapoptotic action in a number of tumoral cell lines associated with antiapoptotic activity in normal cells. The opposite effects of proanthocyanidins in normal and tumoral cells suggest that these compounds might be the base for therapeutic strategies directed selectively against tumoral cells. In addition, cinnamtannin B-1 shows antithrombotic actions through inhibition, in platelets, of endogenous ROS generation, Ca(2+) mobilization and, subsequently, aggregation. This has been reported to be especially relevant in platelets from diabetic patients, where cinnamtannin B-1 reverses both platelet hypersensitivity and hyperactivity. Considering the large number of cellular effects of cinnamtannin B-1 the development of therapeutic strategies for thrombotic disorders or certain types of cancer deserves further studies. This review summarizes the current knowledge on the actions and relevance of the signalling pathways modulated by cinnamtannin B-1.

92 Isaac Jardin; Jose J. Lopez; Gines M. Salido; Juan A. Rosado. Functional relevance of the de novo coupling between hTRPC1 and type IIIP3 receptor in store-operated Ca2+ entry in human platelets. CELLULAR SIGNALLING. 20 - 4, pp. 737 - 747. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/04/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656807003816>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 4.305
Revista dentro del 25%: No
Posición de publicación: 52
Num. revistas en cat.: 52
Fuente de citas: WOS
Citas: 20

Resultados relevantes: Store-operated Ca2+ entry (SOCE), a major mechanism for Ca2+ entry in non-excitable cells, is regulated by the filling state of the intracellular Ca2+ stores. We have previously reported that a de novo conformational coupling between the type II IP3 receptor (IP3RII) and hTRPC1 channel occurs after depletion of the intracellular Ca2+ stores in human platelets, which might be involved in the activation of SOCE in these cells. Here we present for the first time direct evidence for the functional relevance of the coupling between hTRPC1 and IP3RII in SOCE in human platelets. Our data suggest that at least two pathways may contribute to SOCE in these cells. An early component, insensitive to cytochalasin D (Cyt D), is followed by a late component which is sensitive to Cyt D. Introduction of a peptide corresponding to IP3RII(317-334) (IP3BD-peptide(317-334)) in the cells by electrotransjection impairs the coupling between hTRPC1 and IP3RII but not the interaction between hTRPC1 and STIM1 induced by store depletion. Coimmunoprecipitation experiments indicated that endogenously expressed hTRPC1 interacts with the IP3BD-peptide(317-334). Electrotransjection of cells with IP3BD-peptide(317-334), significantly attenuated the late stage of Ca2+ and Mn2+ entry induced by 10 nM thapsigargin (TG) or 20 microM 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ), providing evidence for a functional role of the de novo coupling between hTRPC1 and IP3RII in the activation of SOCE in human platelets.

93 Isaac Jardin; Jose J. Lopez; Jose A. Pariente; Gines M. Salido; Juan A. Rosado. Intracellular calcium release from human platelets: Different messengers for multiple stores. TRENDS IN CARDIOVASCULAR MEDICINE. 18 - 2, pp. 57 - 61. Londres, Inner London(Reino Unido): ELSEVIER SCIENCE LONDON, 01/02/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1050173807002605>. ISSN 1050-1738

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Índice de impacto: 4.121
Revista dentro del 25%: Si
Posición de publicación: 13
Num. revistas en cat.: 13
Fuente de citas: WOS
Citas: 15

Resultados relevantes: Two separate Ca2+ stores have been reported in human platelets: the dense tubular system (DTS) and lysosome-like acidic organelles. Recent work has reported that Ca2+ release from the DTS is mediated by the generation of inositol 1,4,5-trisphosphate, whereas Ca2+ efflux from the acidic stores is mostly linked to nicotinic acid adenine dinucleotide phosphate. Platelet agonists release Ca2+ selectively from one or both stores, which provides additional insight into the complexity of Ca2+ signaling and the cellular functions activated. Here, we review the role of multiple Ca2+ mobilizing messengers and Ca2+ stores in the activation of specific functions in platelets in response to different physiologic agonists.

94 Pedro C. Redondo; Gines M. Salido; Jose A. Pariente; Stewart O. Sage; Juan A. Rosado. SERCA2b and 3 play a regulatory role in store-operated calcium entry in human platelets. CELLULAR SIGNALLING. 20 - 2, pp. 337 - 346. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/02/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656807003233>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 4.305
Revista dentro del 25%: No
Posición de publicación: 52
Num. revistas en cat.: 52
Fuente de citas: WOS
Citas: 11

Resultados relevantes: Two agonist-releasable Ca(2+)stores have been identified in human platelets differentiated by the distinct sensitivity of their SERCA isoforms to thapsigargin (TG) and 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). Here we have examined whether the SERCA isotypes might be involved in store-operated Ca(2+)entry (SOCE) activated by the physiological agonist thrombin in human platelets. Ca(2+)-influx evoked by thrombin (0.01 U/mL) reached a maximum after 3 min, which was consistent with the decrease in the Ca(2+)content in the stores; afterwards, the extent of SOCE decreased with no correlation with the accumulation of Ca(2+)in the stores. Inhibition of SERCA2b, by 10 nM TG, and SERCA3, with 20 microM TBHQ, individually or simultaneously, accelerated Ca(2+) store discharge and subsequently enhanced the extent of SOCE stimulated by thrombin. In addition, TG and TBHQ modified the time course of thrombin-evoked SOCE from a transient to a sustained increase in Ca(2+) influx, which reveals a negative role for SERCAs in the regulation of SOCE. This effect was consistent under conditions that inhibit Ca(2+) extrusion by PMCA or the Na(+)/Ca(2+) exchanger. Coimmunoprecipitation experiments revealed that thrombin stimulates direct interaction between SERCA2b and 3 with the hTRPC1 channel, an effect that was found to be independent of SERCA activity. In summary, our results suggest that SERCA2b and 3 modulate thrombin-stimulated SOCE probably by direct interaction with the hTRPC1 channel in human platelets.

95 Miguel Salazar; Jose Antonio Pariente; Gines Maria Salido; Antonio Gonzalez. Ebselen increases cytosolic free Ca2+ concentration, stimulates glutamate release and increases GFAP content in rat hippocampal astrocytes. TOXICOLOGY. 244 - 2-3, pp. 280 - 291. EAST PARK SHANNON(Irlanda): ELSEVIER IRELAND LTD, 01/02/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0300483X07007913>. ISSN 0300-483X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - TOXICOLOGY
Índice de impacto: 2.836
Revista dentro del 25%: No
Posición de publicación: 20
Num. revistas en cat.: 75
Fuente de citas: WOS
Citas: 6

Resultados relevantes: We have investigated the effect of the seleno-organic compound and radical scavenger ebselen on rat hippocampal astrocytes in culture. Throughout our study we carried out determinations of [Ca2+](c) in fura-2-loaded cells by single cell imaging, glutamate secretion employing an enzymatic-based assay and GFAP expression, which was monitorized by immunocytochemistry and confocal microscopy. Our results show that ebselen (1-20microM) dose dependently increases [Ca2+](c), stimulates glutamate release and increases GFAP content, a hallmark of astrocyte reactivity. Ebselen did not alter significantly cell viability as assayed by determination of LDH release into the extracellular medium. Ebselen-evoked glutamate release and increase in GFAP content were Ca2+-dependent, because incubation of astrocytes in the absence of extracellular Ca2+ (medium containing 0.5mM EGTA) and in the presence of the intracellular Ca2+ chelator BAPTA (10microM) significantly reduced ebselen-evoked changes in these parameters. The effects of ebselen we have observed may underline various signalling pathways which are important for cell proliferation, differentiation and function. However, aberrations in astroglial physiology could significantly compromise brain function, due to their role as modulators of neuron activity. Therefore, we consider that careful attention should be paid when employing ebselen as a prophylactic agent against brain damage

96 Isaac Jardin; Pedro C. Redondo; Gines M. Salido; Juan A. Rosado. Phosphatidylinositol 4,5-bisphosphate enhances store-operated calcium entry through hTRPC6 channel in human platelets. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1783 - 1, pp. 84 - 97. Amsterdam, Noord-Holland(Holanda): ELSEVIER SCIENCE BV, 01/01/2008. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0167488907001905>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.893
Revista dentro del 25%: Si
Posición de publicación: 54
Num. revistas en cat.: 54
Fuente de citas: WOS
Citas: 33

Resultados relevantes: Phosphatidylinositol 4,5-bisphosphate (PIP2) is a versatile regulator of TRP channels. We report that inclusion of a PIP2 analogue, PIP2 1,2-dioctanoyl, does not induce non-capacitative Ca2+ entry per se but enhanced Ca2+ entry stimulated either by thrombin or by selective depletion of the Ca2+ stores in platelets, the dense tubular system, using 10 nM TG, and the acidic stores, using 20 microM 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). Reduction of PIP2 levels by blocking PIP2 resynthesis with Li+ or introducing a monoclonal anti-PIP2 antibody, or sequestering PIP2 using poly-lysine, attenuated Ca2+ entry induced by thrombin, TG and TBHQ, and reduced thrombin-evoked, but not TG- or TBHQ-induced, Ca2+ release from the stores. Incubation with the anti-hTRPC1 antibody did not alter the stimulation of Ca2+ entry by PIP2, whilst introduction of anti-hTRPC6 antibody directed towards the C-terminus of hTRPC6 reduced Ca2+ and Mn2+ entry induced by thrombin, TG or TBHQ, and abolished the stimulation of Ca2+ entry by PIP2. The anti-hTRPC6 antibody, but not the anti-hTRPC1 antibody or PIP2, reduced non-capacitative Ca2+ entry by the DAG analogue 1-oleoyl-2-acetyl-sn-glycerol. In summary, hTRPC6 plays a role both in store-operated and in non-capacitative Ca2+ entry. PIP2 enhances store-operated Ca2+ entry in human platelets, most probably by stimulation of hTRPC6 channels.

97 Sara Morgado; Maria P. Granados; Ignacio Bejarano; Jose J. Lopez; Gines M. Salido; Antonio Gonzalez; Jose A. Pariente. Role of intracellular calcium on hydrogen peroxide-induced apoptosis in rat pancreatic acinar AR42J cells. JOURNAL OF APPLIED BIOMEDICINE. 6 - 4, pp. 211 - 224. Bohemia(República Checa): UNIV SOUTH BOHEMIA, 01/01/2008. Disponible en Internet en: <http://www.zsf.jcu.cz/jab/6_4/pariente.pdf>. ISSN 1214-0287

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Resultados relevantes: The authors investigated whether cytosolic free calcium concentration ([Ca(2+)]c) plays a role in hydrogen peroxide-induced pancreatic acinar AR42J cells apoptosis. We analysed mitochondrial depolarization, [Ca(2+)]c determination and caspase-3 activity by fluorimetric methods, and cytochrome c release by subcellular fractionation and western blotting. The data shown that hydrogen peroxide, which causes a sustained [Ca(2+)]c increase, induces mitochondrial depolarization and cytochrome c release, and activation of caspase-3. Dimethyl-BAPTA loading did not affect hydrogen peroxide-evoked mitochondrial apoptosis, suggesting that these responses are independent of increases in [Ca(2+)]c. Treatment with thapsigargin, to induce extensive calcium store depletion and subsequent increases in [Ca(2+)]c, also stimulates mitochondrial depolarization cytochrome c release, and caspase-3 activation. Similar results were observed in AR42J cells loaded with dimethyl-BAPTA, suggesting that activation of apoptosis by thapsigargin does not require rises in [Ca(2+)]c. However, the blockade of mitochondrial calcium entry by pretreating with Ru360 showed protection against hydrogen peroxide-and thapsigargin-induced mitochondrial apoptosis. These results indicate that the apoptosis evoked by hydrogen peroxide and thapsigargin is mediated by mitochondrial calcium uptake.

98 Antonio Mata; Duarte Marques; Maria A. Martinez-Burgos; Joao Silveira; Joana Marques; Maria F. Mesquita; Jose A. Pariente; Gines M. Salido; Jaipaul Singh. Magnesium-calcium signalling in rat parotid acinar cells: effects of acetylcholine. MOLECULAR AND CELLULAR BIOCHEMISTRY. 307 - 1-2, pp. 193 - 207. DORDRECHT(Holanda): SPRINGER, 01/01/2008. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs11010-007-9599-y>. ISSN 0300-8177

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 8
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 1.764
Revista dentro del 25%: No
Posición de publicación: 125
Num. revistas en cat.: 157

Fuente de citas: WOS
Citas: 1

Resultados relevantes: This study investigated the effects of extracellular Mg(2+) ([Mg(2+)](o)) on basal and acetylcholine (ACh)-evoked amylase secretion and intracellular free Ca(2+) ([Ca(2+)](i)) in rat parotid acinar cells. In a medium containing 1.1 mM [Mg(2+)](o), ACh evoked significant increases in amylase secretion and [Ca(2+)](i). Either low (0 mM) or elevated (5 and 10 mM) [Mg(2+)](o) attenuated ACh-evoked responses. In a nominally Ca(2+) free medium, elevated [Mg(2+)](o) attenuated basal and ACh-evoked amylase secretion and [Ca(2+)](i). In parotid acinar cells incubated with either 0, 1.1, 5 or 10 mM [Mg(2+)](o), ACh evoked a gradual decrease in [Mg(2+)](i). These results indicate that the ACh-evoked Mg(2+) efflux is an active process since Mg(2+) has to move against its gradient. Either lidocaine, amiloride, N-methyl-D: -glucamine, quinidine, dinitrophenol or bumetanide can elevate [Mg(2+)](i) above basal level. In the presence of these membrane transport inhibitors, ACh still evoked a decrease in [Mg(2+)](i) but the response was less pronounced with either [Na(+)](o) removal or in the presence of either amiloride or quinidine. These results indicate marked interactions between Ca(2+) and Mg(2+) signalling in parotid acinar cells and that ACh-evoked Mg(2+) transport was not dependent upon [Na(+)](o).

99 Antonio Gonzalez; Jose A. Pariente; Gines M. Salido. Ethanol stimulates ROS generation by mitochondria through Ca2+ mobilization and increases GFAP content in rat hippocampal astrocytes. BRAIN RESEARCH. 1178, pp. 28 - 37. AMSTERDAM(Holanda): ELSEVIER SCIENCE BV, 01/10/2007. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006899307018756>. ISSN 0006-8993

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - NEUROSCIENCES
Índice de impacto: 2.218 **Revista dentro del 25%:** No
Posición de publicación: 119 **Num. revistas en cat.:** 211

Fuente de citas: WOS **Citas:** 25

Resultados relevantes: We have employed rat hippocampal astrocytes in culture to investigate the effect of ethanol on reactive oxygen species (ROS) production as well as its effect on [Ca2+]c and GFAP expression. Cells were loaded with the fluorescent probes fura-2 and H2DCFDA for the determination of changes in [Ca2+]c and ROS production respectively, employing spectrofluorimetry. GFAP content was determined by immunocytochemistry and confocal scanning microscopy. Our results show ROS production in response to 50 mM ethanol, that was reduced in Ca2+-free medium (containing 0.5 mM EGTA) and in the presence of the intracellular Ca2+ chelator BAPTA (10 microM). The effect of ethanol on ROS production was significantly reduced in the presence of the alcohol dehydrogenase inhibitor 4-methylpyrazole (1 mM), and the antioxidants resveratrol (100 microM) or catalase (300 U/ml). Preincubation of astrocytes in the presence of 10 microM antimycin plus 10 microM oligomycin to inhibit mitochondria completely blocked ethanol-evoked ROS production. In addition, ethanol led to a sustained increase in [Ca2+]c that reached a constant level over the prestimulation values. Finally, incubation of astrocytes in the presence of ethanol increased the content of GFAP that was significantly reduced in the absence of extracellular Ca2+ and by resveratrol and catalase pretreatment. The data obtained in the present study suggest that astrocytes are able to metabolize ethanol, which induces two effects on intracellular homeostasis: an immediate response (Ca2+ release and ROS generation) and later changes involving GFAP expression. Both effects may underline various signaling pathways which are important for cell proliferation, differentiation and function.

100 Isaac Jardin; Nidhal Ben Amor; Juan M. Hernandez-Cruz; Gines M. Salido; Juan A. Rosado. Involvement of SNARE proteins in thrombin-induced platelet aggregation: Evidence for the relevance of Ca2+ entry. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 465 - 1, pp. 16 - 25. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/09/2007. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0003986107002391>. ISSN 0003-9861

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 4 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de citas: WOS **Citas:** 14

Resultados relevantes: Thrombin induces platelet activation through a variety of intracellular mechanisms, including Ca(2+) mobilization. The protein of the exocytotic machinery SNAP-25, but not VAMPs, is required for store-operated Ca(2+) entry, the main mechanism for Ca(2+) influx in platelets. Hence, we have investigated the role of the SNAP-25 and VAMPs in thrombin-induced platelet aggregation. Platelet stimulation with thrombin or selective activation of thrombin receptors PAR-1, PAR-4 or GPIb-IX-V results in platelet aggregation that, except for GPIb-IX-V receptor, requires Ca(2+) entry for full activation. Depletion of the intracellular Ca(2+) stores using pharmacological tools was unable to induce aggregation except when cytosolic Ca(2+) concentration reached a critical level (around 1.5 microM). Electrotransjection of cells with anti-SNAP-25 antibody reduced thrombin-evoked platelet aggregation, while electrotransjection of anti-VAMP-1, -2 and -3 antibody had no effect. These findings support a role for SNAP-25 but not VAMP-1, -2 and -3 in platelet aggregation, which is likely mediated by the regulation of Ca(2+) mobilization in human platelets.

101 M. P. Granados; G. M. Salido; J. A. Pariente; A. Gonzalez. Modulation of CCK-8-evoked intracellular Ca2+ waves by hydrogen peroxide in mouse pancreatic acinar cells. JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. 58 - 3, pp. 423 - 440. KRAKOW(Polonia): POLISH PHYSIOLOGICAL SOC, 01/09/2007. Disponible en Internet en: <http://www.jpp.krakow.pl/journal/archive/09_07/pdf/423_09_07_article.pdf>. ISSN 0867-5910

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 2 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHYSIOLOGY
Índice de impacto: 4.466 **Revista dentro del 25%:** Si
Posición de publicación: 7 **Num. revistas en cat.:** 78

Fuente de citas: WOS **Citas:** 1

Resultados relevantes: In the present study we have employed single cell imaging analysis to monitor the propagation of cholecystokinin-evoked Ca(2+) waves in mouse pancreatic acinar cells. Stimulation of cells with 1 nM CCK-8 led to an initial Ca(2+) release at the luminal cell pole and subsequent spreading of the Ca(2+) signal towards the basolateral membrane in the form of a Ca(2+) wave. Inhibition of sarcoendoplasmic reticulum Ca(2+)-ATPase (SERCA) activity by 1 microM thapsigargin, preincubation in the presence of 100 microM H(2)O(2) or inhibition of PKC with either 5 microM Ro31-8220 or 3 microM GF-109203-X all led to a faster propagation of CCK-8-induced Ca(2+) signals. The propagation of CCK-8-evoked Ca(2+) signals was slowed down by activation of PKC with 1 microM PMA, and preincubation of cells in the presence of H(2)O(2) counteracted the effect of PKC inhibition. The protonophore FCCP (100 nM) and the inhibitor of the mitochondrial Ca(2+)-uniporter Ru360 (10 microM) led to an increase in the propagation rate of CCK-8-evoked Ca(2+) waves. Finally, depolymerisation of actin cytoskeleton with cytochalasin D (10 microM) led to a faster propagation of CCK-8-evoked Ca(2+) signals. Stabilization of actin cytoskeleton with jasplakinolide (10 microM) did not induce significant changes on CCK-8-evoked Ca(2+) waves. Preincubation of cells in the presence of H(2)O(2) counteracted the effect of cytochalasin D on CCK-8-evoked Ca(2+) wave propagation. Our results suggest that spreading of cytosolic Ca(2+) waves evoked by CCK-8 can be modulated by low levels of oxidants acting on multiple Ca(2+)-handling mechanisms.

102 Mohammed El Haouari; Jose J. Lopez; Hassane Mekhfi; Juan A. Rosado; Gines M. Salido. Antiaggregant effects of Arbutus unedo extracts in human platelets. JOURNAL OF ETHNOPHARMACOLOGY. 113 - 2, pp. 325 - 331. EAST PARK SHANNON(Irlanda): ELSEVIER IRELAND LTD, 01/09/2007. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0378874107003145>. ISSN 0378-8741

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 5 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PLANT SCIENCES
Índice de impacto: 2.049 **Revista dentro del 25%:** Si
Posición de publicación: 37 **Num. revistas en cat.:** 37

Fuente de citas: WOS **Citas:** 9

Resultados relevantes: Platelet hyperaggregability plays a pivotal role in the pathogenesis of cardiovascular diseases. Thrombin evokes aggregation through Ca(2+) mobilization, tyrosine phosphorylation and generation of reactive oxygen species (ROS). We have investigated the antiaggregant properties of Arbutus unedo extracts in human platelets. Changes in cytosolic Ca(2+) concentration and intracellular oxidants production were registered by espectrofluorimetry using fura-2 and dichlorodihydrofluorescein, respectively, platelet aggregation was assessed by aggregometry and protein tyrosine phosphorylation was detected by Western blotting. Platelet treatment with increasing concentrations (0.015-1.5mg/mL) of crude aqueous, ethyl acetate or diethyl ether extracts reduced platelet aggregation evoked by thrombin (0.5 U/mL) and show a potent ROS scavenger activity, preventing thrombin-evoked endogenous generation of ROS. Treatment with Arbutus unedo extracts did not alter thrombin-evoked Ca(2+) release from the intracellular stores but reduced store-operated Ca(2+) entry induced by thrombin or by selective depletion of the two Ca(2+) stores in platelets, the dense tubular system and the acidic stores. In addition, platelet treatment with extracts reduced both basal and thrombin-stimulated protein tyrosine phosphorylation. We conclude that Arbutus unedo extracts show antiaggregant actions due to attenuation of Ca(2+) mobilization, ROS production and protein tyrosine phosphorylation and might be used for the treatment and/or prevention of cardiovascular diseases.

103 Nidhal Ben Amor; Aicha Bouaziz; Cristina Romera-Castillo; Sofia Salido; Pablo J. Linares-Palomino; Aghleb Bartegi; Gines M. Salido; Juan A. Rosado. Characterization of the intracellular mechanisms involved in the antiaggregant properties of cinnamtannin B-1 from bay wood in human platelets. JOURNAL OF MEDICINAL CHEMISTRY. 50 - 16, pp. 3937 - 3944. WASHINGTON(Estados Unidos de América): AMER CHEMICAL SOC, 01/08/2007. Disponible en Internet en: <http://pubs.acs.org/doi/abs/10.1021/jm070508d>. ISSN 0022-2623

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 7 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - CHEMISTRY, MEDICINAL

Índice de impacto: 4.895
Posición de publicación: 4
Revista dentro del 25%: Si
Num. revistas en cat.: 4

Fuente de citas: WOS
Citas: 8

Resultados relevantes: Cinnamtannin B-1, a natural A-type proanthocyanidin recently identified as a radical scavenger component of Laurus nobilis L., exerts antiaggregant and antiapoptotic effects in human platelets. Here, we have investigated the intracellular mechanisms involved in the antiaggregant effects of cinnamtannin B-1. Cinnamtannin B-1 showed a greater free radical scavenging activity than vitamin C, vitamin E, or Trolox, among other antioxidants and reduced thrombin-evoked tubulin reorganization and platelet aggregation. Thrombin-evoked activation of Btk and pp60(src) was also inhibited by cinnamtannin B-1. In conclusion, we show that cinnamtannin B-1 is a powerful oxygen radical scavenger that reduces thrombin-evoked microtubular remodeling and activation of the tyrosine kinases Btk and pp60(src), which leads to inhibition of platelet aggregation. These observations suggest that cinnamtannin B-1 may prevent thrombotic complications associated to platelet hyperaggregability and hyperactivity, although further studies are necessary to establish appropriate therapeutic strategies.

104 Aicha Bouaziz; Niclhal Ben Amor; Geoffrey E. Woodard; Hanen Zibidi; Jose J. Lopez; Ahgleb Bartegi; Gines M. Salido; Juan A. Rosado. Tyrosine phosphorylation/dephosphorylation balance is involved in thrombin-evoked microtubular reorganisation in human platelets. THROMBOSIS AND HAEMOSTASIS. 98 - 2, pp. 375 - 384. STUTTGART(Alemania): SCHATTAUER GMBH-VERLAG MEDIZIN NATURWISSENSCHAFTEN, 01/08/2007. Disponible en Internet en: <http://www.schattauer.de/en/magazine/subject-areas/journals-a-z/thrombosis-and-haemostasis/contents/archive/issue/739/manuscript/8499.html>. ISSN 0340-6245

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: PERIPHERAL VASCULAR DISEASE
Índice de impacto: 4,701
Revista dentro del 25%: Si
Posición de publicación: 9
Num. revistas en cat.: 9

Fuente de citas: WOS
Citas: 13

Resultados relevantes: We have investigated the intracellular mechanisms involved in microtubular remodelling by thrombin and its possible involvement in platelet aggregation and secretion. Platelet stimulation with thrombin induces a time- and concentration-dependent regulation of the microtubular content, which was found to be maximally effective at the concentration 0.1 U/ml. Thrombin (0.1 U/ml) evoked an initial decrease in the microtubule content detectable at 5 seconds (sec) and reached a minimum 10 sec after stimulation. The microtubular content then increased, exceeding basal levels again approximately 30 sec after stimulation. Inhibition of tyrosine phosphatases using vanadate abolished thrombin-induced microtubular depolymerisation while inhibition of tyrosine kinases by methyl-2,5-dihydroxycinnamate prevented microtubule polymerisation. Thrombin activates the cytosolic Bruton's tyrosine kinase (Btk) and Src proteins. Inhibition of Btk or Src by LFM-A13 or PP1, respectively, abolished thrombin-induced microtubular polymerisation, while maintaining intact its ability to induce initial depolymerisation. Microtubular disruption by colchicine significantly reduced thrombin-induced platelet aggregation and ATP secretion. Similar results were observed after inhibition of microtubular disassembly by paclitaxel. These findings indicate that thrombin induces microtubular remodelling by modifying the balance between protein tyrosine phosphorylation and dephosphorylation. The former seems to be required for microtubular polymerisation, while tyrosine dephosphorylation is required for microtubular depolymerisation. Both, initial microtubular disassembly and subsequent polymerisation are required for thrombin-induced platelet aggregation and secretion in human platelets.

105 J. J. Lopez; G. M. Salido; E. Gomez-Arteta; J. A. Rosado; J. A. Pariente. Thrombin induces apoptotic events through the generation of reactive oxygen species in human platelets. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 5 - 6, pp. 1283 - 1291. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): BLACKWELL PUBLISHING, 01/06/2007. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2007.02505.x/abstract>. ISSN 1538-7933

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PERIPHERAL VASCULAR DISEASE
Índice de impacto: 5.947
Revista dentro del 25%: Si
Posición de publicación: 7
Num. revistas en cat.: 7

Fuente de citas: WOS
Citas: 33

Resultados relevantes: Treatment of platelets with thrombin stimulates mitochondrial membrane potential depolarization and endogenous generation of H(2)O(2) . Platelet exposure to exogenous H(2)O(2) results in cytochrome c release and activation of caspases-9. In addition, H(2)O(2) induces the activation of caspase-3 and PS exposure by a mechanism dependent on cytochrome c release and caspase-9 activation. Finally, thrombin-evoked development of apoptotic events was impaired by treatment with catalase.

106 A. Bouaziz; C. Romera-Castillo; S. Salido; P. J. Linares-Palomino; J. Altarejos; A. Bartegi; J. A. Rosado; G. M. Salido. Cinnamtannin B-1 from bay wood exhibits antiapoptotic effects in human platelets. APOPTOSIS. 12 - 3, pp. 489 - 498. DORDRECHT(Holanda): SPRINGER, 01/03/2007. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs10495-006-0014-z?LI=true>. ISSN 1360-8185

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 8
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 3.043
Revista dentro del 25%: No
Posición de publicación: 76
Num. revistas en cat.: 76

Fuente de citas: WOS
Citas: 10

Resultados relevantes: Proanthocyanidins, such as cinnamtannin B-1, are polyphenolic compounds with antioxidant activity that induce apoptosis in a number of tumoral cells. We have now investigated the pro- or anti-apoptotic effects of cinnamtannin B-1 in human platelets. Platelet stimulation with thrombin induced cellular apoptosis, as detected by phosphatidylserine exposure and the activation of caspases-3 and -9. Pretreatment for 30 min with cinnamtannin B-1 impaired thrombin-induced apoptosis in platelets. Thrombin has been shown to induce H(2)O(2) generation in platelets, which induced similar apoptotic events than thrombin in these cells. Pretreatment with cinnamtannin B-1 reduced H(2)O(2)-induced phosphatidylserine exposure and caspase activation. Finally, platelet stimulation with thrombin induced translocation of caspases-3 and -9 to the cytoskeletal (Triton-insoluble) fraction, which is important for their activation and the development of apoptotic events. Pretreatment with cinnamtannin B-1 impaired translocation of caspases-3 and -9 to the cytoskeleton and, as a result, procaspases are accumulated in the Triton-soluble fraction. Our results provide evidence for the antiapoptotic actions of cinnamtannin B-1 in human platelets.

107 A. Bouaziz; S. Salido; P. J. Linares-Palomino; A. Sanchez; J. Altarejos; A. Bartegi; Gines M. Salido; Juan A. Rosado. Cinnamtannin B-1 from bay wood reduces abnormal intracellular Ca2+ homeostasis and platelet hyperaggregability in type 2 diabetes mellitus patients. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 457 - 2, pp. 235 - 242. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/01/2007. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0003986106004085>. ISSN 0003-9861

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 7
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 2.578
Revista dentro del 25%: No
Posición de publicación: 32
Num. revistas en cat.: 32

Fuente de citas: WOS
Citas: 15

Resultados relevantes: Type 2 diabetes mellitus induces a number of cardiovascular disorders, including platelet hyperactivity and hyperaggregability, which is associated to an increased oxidant production and abnormal cytosolic Ca2+ mobilization. In the present study, we have investigated the effect of cinnamtannin B-1 obtained from bay wood on oxidants production, Ca2+ mobilization and aggregation in platelets from type 2 diabetic

donors. Pretreatment of platelets with cinnamtannin B-1 reversed the enhanced oxidants production and Ca2+ mobilization, including Ca2+ entry, evoked by thapsigargin plus ionomycin or thrombin, observed in platelets from diabetic subjects, so that in the presence of cinnamtannin B-1 Ca2+ entry was similar in platelets from healthy and diabetic subjects. In addition, cinnamtannin B-1 reduced thrombin-induced aggregation in platelets from type 2 diabetic subjects. We conclude that cinnamtannin B-1 exerts an effective antioxidant action in platelets from patients with type 2 diabetes mellitus and reverses the enhanced Ca2+ mobilization and hyperaggregability.

108 Isaac Jardin; Nidhal Ben Amor; Ahgleb Bartegi; Jose A. Pariente; Gines M. Salido; Juan A. Rosado. Differential involvement of thrombin receptors in Ca2+ release from two different intracellular stores in human platelets. BIOCHEMICAL JOURNAL. 401 - Part 1, pp. 167 - 174. PORTLAND PRESS LTD, 01/01/2007. Disponible en Internet en: <http://www.biochemj.org/bj/401/0167/bj4010167.htm>. ISSN 0264-6021

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.009
Revista dentro del 25%: No
Posición de publicación: 67
Num. revistas en cat.: 67
Fuente de citas: WOS
Citas: 25

Resultados relevantes: Physiological agonists increase cytosolic free Ca2+ concentration to regulate a number of cellular processes. The platelet thrombin receptors, PAR (protease-activated receptor) 1 PAR-4 and GPIb-IX-V (glycoprotein Ib-IX-V) have been described as potential contributors of thrombin-induced platelet aggregation. Platelets present two separate Ca2+ stores, the DTS (dense tubular system) and acidic organelles, differentiated by the distinct sensitivity of their respective SERCAs (sarcoplasmic/endoplasmic-reticulum Ca2+-ATPases) to TG (thapsigargin) and TBHQ [2,5-di-(tert-butyl)-1,4-hydroquinone]. However, the involvement of the thrombin receptors in Ca2+ release from each Ca2+ store remains unknown. Depletion of the DTS using ADP, which releases Ca2+ solely from the DTS, in combination with 10 nM TG, to selectively inhibit SERCA2 located on the DTS reduced Ca2+ release evoked by the PAR-1 agonist, SFLLRN, and the PAR-4 agonist, AYPGKF, by 80 and 50% respectively. Desensitization of PAR-1 and PAR-4 or pre-treatment with the PAR-1 and PAR-4 antagonists SCH 79797 and tcY-NH2 reduced Ca2+ mobilization induced by thrombin, and depletion of the DTS after desensitization or blockade of PAR-1 and PAR-4 had no significant effect on Ca2+ release stimulated by thrombin through the GPIb-IX-V receptor. Converse experiments showed that depletion of the acidic stores using TBHQ reduced Ca2+ release evoked by SFLLRN or AYPGKF, by 20 and 50% respectively, and abolished thrombin-stimulated Ca2+ release through the GPIb-IX-V receptor when PAR-1 and PAR-4 had been desensitized or blocked. Our results indicate that thrombin-induced activation of PAR-1 and PAR-4 evokes Ca2+ release from both Ca2+ stores, while activation of GPIb-IX-V by thrombin releases Ca2+ solely from the acidic compartments in human platelets.

109 Juan A. Rosado; Jose J. Lopez; Emilio Gomez-Arteta; Pedro C. Redondo; Gines M. Salido; Jose A. Pariente. Early caspase-3 activation independent of apoptosis is required for cellular function. JOURNAL OF CELLULAR PHYSIOLOGY. 209 - 1, pp. 142 - 152. Hoboken(Estados Unidos de América): WILEY-LISS, 01/10/2006. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1002/jcp.20715/abstract>. ISSN 0021-9541

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 45

Resultados relevantes: A number of pro-apoptotic stimuli induce the activation of caspase-9, an initiator protease that activates executioner caspases, such as caspase-3, leading to the development of programmed cell death. Here we demonstrate that cell (platelets and pancreatic acinar cells) stimulation with agonists induces a bimodal activation of caspase-3. The early caspase-3 activation occurs within 1 min of stimulation and is independent on caspase-9 or mitochondrial cytochrome c release suggesting that is a non-apoptotic event. The ability of agonists to induce early activation of caspase-3 is similar to that observed for other physiological processes. Activation of caspase-3 by physiological concentrations of cellular agonists, including thrombin or CCK-8, is independent of rises in cytosolic calcium concentration but requires PKC activation, and is necessary for agonist-induced

activation of the tyrosine kinases Btk and pp60src and for several cellular functions, including store-operated calcium entry, platelet aggregation, or pancreatic secretion. Thus, early activation of caspase-3 seems to be a non-apoptotic event required for cellular function.

110 Jose J. Lopez; Gines M. Salido; Jose A. Pariente; Juan A. Rosado. Interaction of STIM1 with endogenously expressed human canonical TRP1 upon depletion of intracellular Ca2+ stores. JOURNAL OF BIOLOGICAL CHEMISTRY. 281 - 38, pp. 28254 - 28264. Bethesda(Estados Unidos de América): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/09/2006. Disponible en Internet en: <http://www.jbc.org/content/281/38/28254.long>. ISSN 0021-9258

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 5.808
Revista dentro del 25%: Si
Posición de publicación: 39
Num. revistas en cat.: 39
Fuente de citas: WOS
Citas: 115

Resultados relevantes: STIM1 (stromal interaction molecule 1) has recently been proposed to communicate the intracellular Ca(2+) stores with the plasma membrane to mediate store-operated Ca(2+) entry. Here we describe for the first time that Ca(2+) store depletion stimulates rapid STIM1 surface expression and association with endogenously expressed human canonical TRP1 (hTRPC1) independently of rises in cytosolic free Ca(2+) concentration. These events require the support of the actin cytoskeleton in human platelets, as reported for the coupling between type II inositol 1,4,5-trisphosphate receptor in the Ca(2+) stores and hTRPC1 in the plasma membrane, which has been suggested to underlie the activation of store-operated Ca(2+) entry in these cells. Electrotransjection of cells with anti-STIM1 antibody, directed toward the N-terminal sequence that includes the Ca(2+)-binding region, prevented the migration of STIM1 toward the plasma membrane, the interaction between STIM1 and hTRPC1, the coupling between hTRPC1 and type II inositol 1,4,5-trisphosphate receptor, and reduced store-operated Ca(2+) entry. These findings provide evidence for a role of STIM1 in the activation of store-operated Ca(2+) entry probably acting as a Ca(2+) sensor.

111 Juan A. Rosado; Ana M. Nunez; Jose J. Lopez; Jose A. Pariente; Gines M. Salido. Intracellular Ca2+ homeostasis and aggregation in platelets are impaired by ethanol through the generation of H2O2 and oxidation of sulphydryl groups. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 452 - 1, pp. 9 - 16. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/08/2006. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0003986106002025>. ISSN 0003-9861

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 2.969
Revista dentro del 25%: No
Posición de publicación: 22
Num. revistas en cat.: 22
Fuente de citas: WOS
Citas: 7

Resultados relevantes: The mechanisms involved in the effect of ethanol on Ca2+ entry and aggregability have been investigated in human platelets in order to shed new light on the pathogenesis of alcohol consumption. Ethanol (50 mM) induced H2O2 production in platelets by Ca2+-dependent and independent mechanisms. Ca2+ entry induced by ethanol was impaired by catalase. Ethanol reduced SOCE mediated by depletion of the 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-sensitive acidic stores but enhances SOCE regulated by the dense tubular system. This effect was abolished by treatment with catalase or the sulphydryl group reducing agent dithiotreitol (DTT). Similarly, the anti-aggregant effect of ethanol was prevented by platelet treatment with catalase or DTT. In conclusion we provide considerable evidence that ethanol alters Ca2+ entry and reduces thrombin-induced aggregation as a result of the generation of H2O2 and the oxidation of sulphydryl groups in human platelets.

112 N Ben Amor; JA Pariente; GM Salido; A Bartegi; JA Rosado. Caspases 3 and 9 are translocated to the cytoskeleton and activated by thrombin in human platelets. Evidence for the involvement of PKC and the actin filament polymerization. CELLULAR SIGNALLING. 18 - 8, pp. 1252 - 1261. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/08/2006. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656805002639>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 4.887
Revista dentro del 25%: Si
Posición de publicación: 37
Num. revistas en cat.: 37
Fuente de citas: WOS
Citas: 11

Resultados relevantes: Platelets express, among others, initiator caspase 9 and effector caspase 3. Upon activation by physiological agonists, calcium ionophores or under shear stress they might develop apoptotic events. Although it is well known that the cytoskeletal network plays a crucial role in apoptosis, the relationship between caspases 3 and 9 and the cytoskeleton is poorly understood. Here we demonstrate that the physiological agonist thrombin is able to induce activation of caspases 3 and 9 in human platelets and significantly increases the amount in the cytoskeleton of the active forms of both caspases and the procaspases 3 and 9. After stimulation with thrombin the amount of active caspases 3 and 9 in the cytosolic and cytoskeletal fractions were significantly reduced in Ro-31-8220-treated cells, which demonstrates that caspases activation and association with the cytoskeleton needs the contribution of PKC. Inhibition of actin polymerization by cytochalasin D inhibits translocation and activation of both caspases, suggesting that thrombin stimulates caspase 3 and 9 activation and association with the reorganizing actin cytoskeleton. Finally, our results show that inhibition of thrombin-induced caspase activation has no effect on their translocation to the cytoskeleton although impairment of thrombin-evoked caspase translocation has negative effects on caspase activity, suggesting that translocation to the cytoskeleton might be important for caspase activation by thrombin in human platelets.

113 Isaac Jardin; Pedro C. Redondo; Gines M. Salido; Jose A. Pariente; Juan A. Rosado. Endogenously generated reactive oxygen species reduce PMCA activity in platelets from patients with non-insulin-dependent diabetes mellitus. PLATELETS. 17 - 5, pp. 283 - 288. OXON(Reino Unido): TAYLOR \& FRANCIS LTD, 01/08/2006. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.1080/09537100600745187>. ISSN 0953-7104

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - HEMATOLOGY
Índice de impacto: 1.679
Revista dentro del 25%: No
Posición de publicación: 40
Num. revistas en cat.: 40
Fuente de citas: WOS
Citas: 15

Resultados relevantes: Intracellular Ca2+ homeostasis in platelets of patients with non-insulin-dependent diabetes mellitus (NIDDM) has been reported to be altered, leading to an increased adhesiveness and spontaneous aggregation. Among the disturbed Ca2+ mechanism in platelets from NIDDM subjects, a reduced Ca2+ extrusion by the plasma membrane Ca2+-ATPase (PMCA) is especially relevant, maintaining an elevated cytosolic free Ca2+ concentration that results in platelet hypersensitivity. Here we show that treatment of platelets from NIDDM patients with 300 U/mL catalase or 5 mM D-mannitol, which prevent H2O2- and hydroxyl radicals-mediated oxidative stress, respectively, increases Ca2+ extrusion after treatment with thapsigargin (TG) plus ionomycin (Iono). In contrast, 1 mM trolox, a scavenger of ONOO-, did not alter TG + Iono-induced response. Catalase and D-mannitol reversed the enhanced tyrosine phosphorylation of PMCA induced by TG + Iono in NIDDM patients. These findings open up new horizon for the development of therapeutic strategies to palliate cardiovascular disorders in NIDDM.

114 Antonio Gonzalez; Maria P. Granados; Jose A. Pariente; Gines M. Salido. H2O2 mobilizes Ca2+ from agonist- and thapsigargin-sensitive and insensitive intracellular stores and stimulates glutamate secretion in rat hippocampal astrocytes. NEUROCHEMICAL RESEARCH. 31 - 6, pp. 741 - 750. NEW YORK(Estados

Unidos de América): SPRINGER/PLENUM PUBLISHERS, 01/06/2006. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs11064-006-9078-y>. ISSN 0364-3190

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - NEUROSCIENCES
Índice de impacto: 2.139
Revista dentro del 25%: No
Posición de publicación: 120
Num. revistas en cat.: 200

Fuente de citas: WOS
Citas: 20

Resultados relevantes: The effect of hydrogen peroxide (H2O2) on cytosolic free calcium concentration ([Ca2+]c) as well as its effect on glutamate secretion in rat hippocampal astrocytes have been the aim of the present research. Our results show that 100 microM H2O2 induces an increase in [Ca2+]c, that remains at an elevated level while the oxidant is present in the perfusion medium, due to its release from intracellular stores as it was observed in the absence of extracellular Ca2+, followed by a significant increase in glutamate secretion. Ca2+-mobilization in response to the oxidant could only be reduced by thapsigargin plus FCCP, indicating that the Ca2+-mobilizable pool by H2O2 includes both endoplasmic reticulum and mitochondria. We conclude that ROS in hippocampal astrocytes might contribute to an elevation of resting [Ca2+]c which, in turn, could lead to a maintained secretion of the excitatory neurotransmitter glutamate, which has been considered a situation potentially leading to neurotoxicity in the hippocampus.

115 MA Martinez-Burgos; MP Granados; A Gonzalez; JA Rosado; MD Yago; GM Salido; E Martinez-Victoria; M Manas; JA Pariente. Involvement of ryanodine-operated channels in tert-butylhydroperoxide-evoked Ca2+ mobilisation in pancreatic acinar cells. JOURNAL OF EXPERIMENTAL BIOLOGY. 209 - 11, pp. 2156 - 2164. CAMBRIDGE(Reino Unido): COMPANY OF BIOLOGISTS LTD, 01/06/2006. Disponible en Internet en: <http://jeb.biologists.org/content/209/11/2156.long>. ISSN 0022-0949

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: BIOLOGY
Índice de impacto: 2.631
Revista dentro del 25%: Si
Posición de publicación: 11
Num. revistas en cat.: 11

Fuente de citas: WOS
Citas: 4

Resultados relevantes: Reactive oxygen species and related oxidative damage have been implicated in the initiation of acute pancreatitis, a disease characterised in its earliest stages by disruption of intracellular Ca2+ homeostasis. The present study was carried out in order to establish the effect of the organic pro-oxidant, tert-butylhydroperoxide (tBHP), on the mobilisation of intracellular Ca2+ stores in isolated rat pancreatic acinar cells and the mechanisms underlying this effect. Cytosolic free Ca2+ concentrations ([Ca2+]c) were monitored using a digital microspectrofluorimetric system in fura-2 loaded cells. In the presence of normal extracellular Ca2+ concentrations ([Ca2+]o), perfusion of pancreatic acinar cells with 1 mmol l-1 tBHP caused a slow sustained increase in [Ca2+]c. This increase was also observed in a nominally Ca2+-free medium, indicating a release of Ca2+ from intracellular stores. Pretreatment of cells with tBHP abolished the typical Ca2+ response of both the physiological agonist CCK-8 (1 nmol l-1) and thapsigargin (TPS, 1 micromol l-1), an inhibitor of the SERCA pump, in the absence of extracellular Ca2+. Similar results were observed with carbonyl cyanide p-trifluoromethoxyphenylhydrazone (FCCP, 0.5 micromol l-1), a mitochondrial uncoupler. In addition, depletion of either agonist-sensitive Ca2+ pools by CCK-8 or TPS or mitochondrial Ca2+ pools by FCCP were unable to prevent the tBHP-induced Ca2+ release. By contrast, simultaneous administration of TPS and FCCP clearly abolished the tBHP-induced Ca2+ release. These results show that tBHP releases Ca2+ from agonist-sensitive intracellular stores and from mitochondria. On the other hand, simultaneous application of FCCP and of 2-aminoethoxydiphenylborane (2-APB), a blocker of IP3-mediated Ca2+ release, was unable to suppress the increase in [Ca2+]c induced by tBHP, while the application of 50 micromol l-1 of ryanodine (which is able to block the ryanodine channels) inhibits tBHP-evoked Ca2+ mobilisation. These findings indicate that tBHP releases Ca2+ from non-mitochondrial Ca2+ pools through ryanodine channels.

116 NB Amor; JA Pariente; GM Salido; JA Rosado; A Bartegi. Thrombin-induced caspases 3 and 9 translocation to the cytoskeleton is independent of changes in cytosolic calcium in human platelets. BLOOD CELLS MOLECULES AND DISEASES. 36 - 3, pp. 392 - 401. SAN DIEGO(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/05/2006. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1079979606000854>. ISSN 1079-9796

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Hematology
Índice de impacto: 2.678
Revista dentro del 25%: No
Posición de publicación: 27
Num. revistas en cat.: 27

Fuente de citas: WOS
Citas: 4

Resultados relevantes: Apoptosis has been shown to be associated with changes in cytosolic free calcium concentration ([Ca(2+)](c)). Here we show that the agonist thrombin induces activation of caspases 9 and 3 and translocation of the caspase active forms and procaspases to the cytoskeleton in human platelets. Dimethyl-BAPTA loading did not affect thrombin-induced caspase 9 and 3 activation or translocation suggesting that these responses are independent of increases in [Ca(2+)](c). Treatment with thapsigargin plus ionomycin, to induce extensive Ca(2+) store depletion and subsequent increase in [Ca(2+)](c), stimulates caspase activation although it was unable to induce caspase translocation to the cytoskeleton. Similar results were observed in cells loaded with dimethyl-BAPTA, suggesting that activation of caspases 9 and 3 by thapsigargin plus ionomycin does not require rises in [Ca(2+)](c). These findings suggest that thrombin-induced caspase 9 and 3 activation and translocation are independent on rises in [Ca(2+)](c) but might require store depletion in human platelets.

117 JA Rosado; PC Redondo; GM Salido; JA Pariente. Calcium signalling and reactive oxygen species in non-excitable cells. MINI-REVIEWS IN MEDICINAL CHEMISTRY. 6 - 4, pp. 409 - 415. SAIF ZONEBENTHAM SCIENCE PUBL LTD, 01/04/2006. Disponible en Internet en: <http://www.benthamdirect.org/pages/content.php?MRMC/2006/00000006/00000004/0006N.SGM>. ISSN 1389-5575

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CHEMISTRY, MEDICINAL
Índice de impacto: 3.163
Revista dentro del 25%: Si
Posición de publicación: 7
Num. revistas en cat.: 7

Fuente de citas: WOS
Citas: 12

Resultados relevantes: Reactive oxygen species can induce several biological processes by stimulating signal transduction components such as cytosolic free calcium concentration. The physiological significance of the role of biological oxidants in the regulation of calcium signalling pathway as well as the mechanisms of the oxidant-stimulation of signal transduction are discussed in this review

118 JA Rosado; AM Nunez; JA Pariente; GM Salido. Alterations in intracellular calcium homeostasis and platelet aggregation induced by ethanol. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 341 - 4, pp. 917 - 924. SAN DIEGO(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/03/2006. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006291X06001422>. ISSN 0006-291X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 2.855
Revista dentro del 25%: No
Posición de publicación: 24
Num. revistas en cat.: 24

Fuente de citas: WOS **Citas:** 6

Resultados relevantes: The in vitro effects of ethanol on intracellular Ca(2+) homeostasis and tyrosine phosphorylation have been investigated in human platelets in order to clarify the cellular mechanisms underlying its described anti-aggregant effects. Ethanol (1-50 mM) reduced, in a dose-dependent manner, the rate and amplitude of aggregation and attenuated the phosphotyrosine content both induced by 0.1U/ml of the physiological ligand, thrombin. Thrombin-induced Ca(2+) entry to the cytosol was significantly reduced, and capacitative Ca(2+) entry (CCE) significantly altered, by 50 mM ethanol, so that ethanol reduces CCE mediated by depletion of the 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-sensitive store but enhances CCE induced by the TBHQ-insensitive pool. In conclusion, we provide considerable evidence that ethanol reduces thrombin-induced aggregation, which is likely a result of a significant inhibition of Ca(2+) entry, as well as a reduction in the activity of protein tyrosine kinases.

119 JJ Lopez; PC Redondo; GM Salido; JA Pariente; JA Rosado. Two distinct Ca2+ compartments show differential sensitivity to thrombin, ADP and vasopressin in human. CELLULAR SIGNALLING. 18 - 3, pp. 373 - 381. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/03/2006. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656805001087>. ISSN 0898-6568

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - CELL BIOLOGY
Índice de impacto: 4.887 **Revista dentro del 25%:** Si
Posición de publicación: 37 **Num. revistas en cat.:** 37

Fuente de citas: WOS **Citas:** 57

Resultados relevantes: Recent studies propose the existence of two distinct Ca2+ compartments in human platelets based on the expression of different SERCA isoforms with distinct sensitivity to thapsigargin and 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ). Using fura-2-loaded human platelets we have found that depletion of the TBHQ sensitive store reduces thrombin--but not ADP--or vasopressin (AVP)-induced Ca2+ release. Redistribution of cytosolic Ca2+ after thrombin stimulation resulted in overloading of the TBHQ-sensitive store. This phenomenon was not observed with ADP or AVP. We found that NAADP decreases the Ca2+ concentration into the stores in permeabilized platelets, which is prevented by depletion of the TBHQ-sensitive store. Nimodipine, an inhibitor of the NAADP receptor, reduced thrombin-induced Ca2+ release from the TBHQ-sensitive stores, without having any effect on the responses elicited by ADP or AVP. Finally, the phospholipase C inhibitor, U-73122, abolished ADP- and AVP-induced Ca2+ release, suggesting that their responses are entirely dependent on IP3 generation. In contrast, treatment with both U-73122 and nimodipine was required to abolish thrombin-induced Ca2+ release. We suggest that thrombin evokes Ca2+ release from TBHQ-sensitive and insensitive stores, which requires both NAADP and IP3, respectively, while ADP and AVP exert an IP3-dependent release of Ca2+ from the TBHQ-insensitive compartment in human platelets.

120 MP Granados; GM Salido; A Gonzalez; JA Pariente. Dose-dependent effect of hydrogen peroxide on calcium mobilization in mouse pancreatic acinar cells. BIOCHEMISTRY AND CELL BIOLOGY-BIOCHIMIE ET BIOLOGIE CELLULAIRE. 84 - 1, pp. 39 - 48. NATL RESEARCH COUNCIL CANADA, 01/02/2006. ISSN 0829-8211

Tipo de producción: Artículo **Tipo de soporte:** Revista

121 N Ben-Amor; PC Redondo; A Bartegi; JA Pariente; GM Salido; JA Rosado. A role for 5,6-epoxyeicosatrienoic acid in calcium entry by de novo conformational coupling in human platelets. JOURNAL OF PHYSIOLOGY-LONDON. 570 - 2, pp. 309 - 323. OXON(Reino Unido): BLACKWELL PUBLISHING, 01/01/2006. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1464301/>. ISSN 0022-3751

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 5 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHYSIOLOGY
Índice de impacto: 4.407 **Revista dentro del 25%:** Si
Posición de publicación: 9 **Num. revistas en cat.:** 9

Fuente de citas: WOS **Citas:** 21

Resultados relevantes: A major pathway for Ca(2+) entry in non-excitable cells is activated following depletion of intracellular Ca(2+) stores. A de novo conformational coupling between elements in the plasma membrane (PM) and Ca(2+) stores has been proposed as the most likely mechanism to activate this capacitative Ca(2+) entry (CCE) in several cell types, including platelets. Here we report that a cytochrome P450 metabolite, 5,6-EET, might be a component of the de novo conformational coupling in human platelets. In these cells, 5,6-EET induces divalent cation entry without having any detectable effect on Ca(2+) store depletion. 5,6-EET-induced Ca(2+) entry was sensitive to the CCE blockers 2-APB, lanthanum, SKF-96365 and nickel and impaired by incubation with anti-hTRPC1 antibody. Ca(2+) entry stimulated by low concentrations of thapsigargin, which selectively depletes the dense tubular system and induces EET production, was impaired by the cytochrome P450 inhibitor 17-ODYA, which has no effect on CCE mediated by depletion of the acidic stores using 2,5-di-(tert-butyl)-1,4-hydroquinone. We have found that 5,6-EET-induced Ca(2+) entry requires basal levels of H(2)O(2), which might maintain a redox state favourable for this event. Finally, our results indicate that 5,6-EET induces the activation of tyrosine kinase proteins and the reorganization of the actin cytoskeleton, which might provide a support for the transport of portions of the Ca(2+) store towards the PM to facilitate de novo coupling between IP(3)R type II and hTRPC1 detected by coimmunoprecipitation. We propose that the involvement of 5,6-EET in TG-induced coupling between IP(3)R type II and hTRPC1 and subsequently CCE is compatible with the de novo conformational coupling in human platelets.

122 A Gonzalez; AM Nunez; MP Granados; JA Pariente; GM Salido. Ethanol impairs CCK-8-evoked amylase secretion through Ca2+-mediated ROS generation in mouse pancreatic acinar cells. ALCOHOL. 38 - 1, pp. 51 - 57. PERGAMON-ELSEVIER SCIENCE LTD, 01/01/2006. ISSN 0741-8329

Tipo de producción: Artículo **Tipo de soporte:** Revista

123 PC Redondo; JA Rosado; JA Pariente; GM Salido. Collaborative effect of SERCA and PMCA in cytosolic calcium homeostasis in human platelets. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 61 - 4, pp. 507 - 516. PAMPLONA(España): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 01/12/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007/BF03168376?null>. ISSN 1138-7548

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 4 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 0.934 **Revista dentro del 25%:** No
Posición de publicación: 221 **Num. revistas en cat.:** 221

Fuente de citas: WOS **Citas:** 5

Resultados relevantes: Intracellular free Ca2+ concentration ([Ca2+]c) is finely regulated by several mechanisms that either increase or reduce [Ca2+]c. Two different Ca2+ pumps have been described so far as the main mechanisms for Ca2+ removal from the cytosol, either by its sequestration into the stores, mediated by the sarco(endo)plasmic reticulum Ca2+-ATPase (SERCA) or by Ca2+ extrusion to the extracellular medium, by the plasma membrane Ca2+-ATPase (PMCA). We have used inhibitors of these pumps to analyze their Ca2+ clearance efficacy in human platelets stimulated by the physiological agonist thrombin. Results demonstrate that, after platelet stimulation with thrombin, activation of SERCA precedes that of PMCA, although the ability of PMCA to remove Ca2+ from the cytosol last longer than that of SERCA. The efficacy of SERCA and PMCA removing Ca2+ from the cytosol is reduced when the concentration of thrombin increases. This phenomenon correlates with the greater increase in [Ca2+]c induced by higher concentrations of thrombin, which further confirms that SERCA and PMCA activities are regulated by [Ca2+]c.

124 MP Granados; GM Salido; JA Pariente; A Gonzalez. Effect of H2O2 on CCK-8-evoked changes in mitochondrial activity in isolated mouse pancreatic acinar cells. BIOLOGY OF THE CELL. 97 - 11, pp. 847 - 856. PORTLAND PRESS LTD, 01/11/2005. ISSN 0248-4900

Tipo de producción: Artículo **Tipo de soporte:** Revista

125 JA Rosado; PC Redondo; SO Sage; JA Pariente; GM Salido. Store-operated Ca2+ entry: Vesicle fusion or reversible trafficking and de novo conformational coupling?. JOURNAL OF CELLULAR PHYSIOLOGY. 205 - 2, pp. 262 - 269. HOBOKEN(Estados Unidos de América): WILEY-LISS, 01/11/2005. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1002/jcp.20399/abstract;jsessionid=D346C17DC272240BC6365995349815A7.d03t04>. ISSN 0021-9541

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 4.362
Revista dentro del 25%: Si
Posición de publicación: 9
Num. revistas en cat.: 9
Fuente de citas: WOS
Citas: 43

Resultados relevantes: Store-operated Ca2+ entry (SOCE), a mechanism regulated by the filling state of the intracellular Ca2+ stores, is a major pathway for Ca2+ influx. Hypotheses to explain the communication between the Ca2+ stores and plasma membrane (PM) have considered both the existence of small messenger molecules, such as a Ca2+-influx factor (CIF), and both stable and de novo conformational coupling between proteins in the Ca2+ store and PM. Alternatively, a secretion-like coupling model based on vesicle fusion and channel insertion in the PM has been proposed, which shares some properties with the de novo conformational coupling model, such as the role of the actin cytoskeleton and soluble N-ethylmaleimide (NEM)-sensitive-factor attachment proteins receptor (SNARE) proteins. Here we review recent progress made in the characterization of the de novo conformational coupling and the secretion-like coupling models for SOCE. We pay particular attention into the involvement of SNARE proteins and the actin cytoskeleton in both SOCE models. SNAREs are recognized as proteins involved in exocytosis, participating in vesicle transport, membrane docking, and fusion. As with secretion, a role for the cortical actin network in Ca2+ entry has been demonstrated in a number of cell types. In resting cells, the cytoskeleton may prevent the interaction between the Ca2+ stores and the PM, or preventing fusion of vesicles containing Ca2+ channels with the PM. These are processes in which SNARE proteins might play a crucial role upon cell activation by directing a precise interaction between the membrane of the transported organelle and the PM.

126 A Juska; PC Redondo; JA Rosado; GM Salido. Dynamics of calcium fluxes in human platelets assessed in calcium-free medium. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 334 - 3, pp. 779 - 786. SAN DIEGO(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/09/2005. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006291X05014944>. ISSN 0006-291X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 3
Revista dentro del 25%: No
Posición de publicación: 97
Num. revistas en cat.: 97
Fuente de citas: WOS
Citas: 10

Resultados relevantes: Dynamics of changes in cytosolic calcium concentration resulting from facilitation of calcium leakage from the stores and (or) blocking the pathways of its reuptake back into the stores or extrusion out of the cell (or both) have been investigated experimentally. It has been found that: (a) no mechanisms other than the membrane leakage, PMCA or SERCA, are involved in the discharge of calcium stores and calcium extrusion or reuptake; (b) the discharge of calcium stores in the absence of both its extrusion and reuptake back into the stores depends only on membrane leakage, the asymptotic calcium concentration in cytosol depending only on the initial content of the stores and being independent of the leakage; (c) the dynamics of the activity of both PMCA and SERCA depend on the initial rate of calcium influx, the dynamics differing from each other at high initial rates of calcium influx; (d) whereas there is no observable background activity of PMCA, background activity of SERCA is observed.

127 PC Redondo; N Ben-Amor; GM Salido; A Bartegi; JA Pariente; JA Rosado. Ca2+-independent activation of Bruton's tyrosine kinase is required for store-mediated Ca2+ entry in human platelets. CELLULAR SIGNALLING. 17 - 8, pp. 1011 - 1021. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/08/2005. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656804002682>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 4.398
Revista dentro del 25%: No
Posición de publicación: 40
Num. revistas en cat.: 40
Fuente de citas: WOS
Citas: 32

Resultados relevantes: Store-mediated Ca(2+) entry (SMCE), which is rapidly activated by depletion of the intracellular Ca(2+) stores, is a major mechanism for Ca(2+) influx. Several studies have involved tyrosine kinases in the activation of SMCE, such as pp60(src), although at present those involved in the early activation steps are unknown. Here we report the involvement of Bruton's tyrosine kinase (Btk) in the early stages of SMCE in human platelets. Cell treatment with thrombin or thapsigargin (TG) plus ionomycin (Iono) results in rapid activation of Btk, which was independent of rise in intracellular Ca(2+) concentration ([Ca(2+)](i)) but dependent on H(2)O(2) generation. Platelet treatment with Btk inhibitors, LFM-A13 or terreic acid, significantly reduced TG+Iono- and thrombin-evoked SMCE. Btk was rapidly activated by addition of low concentrations of H(2)O(2), whose effect on Ca(2+) entry was prevented by Btk inhibitors. Our results indicate that pp60(src) and Btk co-immunoprecipitate after platelet stimulation with TG+Iono, thrombin or H(2)O(2). In addition, we have found that LFM-A13 impaired actin filament reorganization after store depletion and agonist-induced activation of pp60(src), while the inhibitor of pp60(src), a protein that requires actin reorganization for its activation, did not modify Btk activation, suggesting that Btk is upstream of pp60(src). We propose a role for Btk in the early steps of activation of SMCE in human platelets.

128 JJ Lopez; C Camello-Almaraz; JA Pariente; GM Salido; JA Rosado. Ca2+ accumulation into acidic organelles mediated by Ca2+- and vacuolar H+-ATPases in human platelets. BIOCHEMICAL JOURNAL. 390 - Part 1, pp. 243 - 252. London, Inner London(Reino Unido): PORTLAND PRESS LTD, 01/08/2005. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1188269/>. ISSN 0264-6021

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.224
Revista dentro del 25%: Si
Posición de publicación: 62
Num. revistas en cat.: 62
Fuente de citas: WOS
Citas: 68

Resultados relevantes: Most physiological agonists increase cytosolic free [Ca2+]c (cytosolic free Ca2+ concentration) to regulate a variety of cellular processes. How different stimuli evoke distinct spatiotemporal Ca2+ responses remains unclear, and the presence of separate intracellular Ca2+ stores might be of great functional relevance. Ca2+ accumulation into intracellular compartments mainly depends on the activity of Ca2+- and H+-ATPases. Platelets present two separate Ca2+ stores differentiated by the distinct sensitivity to thapsigargin and TBHQ [2,5-di-(t-butyl)-1,4-hydroquinone]. Although one store has long been identified as the dense tubular system, the nature of the TBHQ-sensitive store remains uncertain. Treatment of platelets with GPN (glycylphenylalanine-2-naphthylamide) impaired Ca2+ release by TBHQ and reduced that evoked by thrombin. In contrast, GPN did not modify Ca2+ mobilization stimulated by ADP or AVP ([arginine]vasopressin). Treatment with nigericin, a proton carrier, and bafilomycin A1, an inhibitor of the vacuolar H+-ATPase, to dissipate the proton gradient into acidic organelles induces a transient increase in [Ca2+]c that was abolished by previous treatment with the SERCA (sarcoplasmic/endoplasmic-reticulum Ca2+-ATPase) 3 inhibitor TBHQ. Depleted acidic stores after nigericin or bafilomycin A1 were refilled by SERCA 3. Thrombin, but not ADP or AVP, reduces the rise in

[Ca2+]c evoked by nigericin and bafilomycin A1. Our results indicate that the TBHQ-sensitive store in human platelets is an acidic organelle whose Ca2+ accumulation is regulated by both Ca2+- and vacuolar H+-ATPases.

129 PC Redondo; I Jardin; JM Hernandez-Cruz; JA Pariente; GM Salido; JA Rosado. Hydrogen peroxide and peroxynitrite enhance Ca2+ mobilization and aggregation in platelets from type 2 diabetic patients. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 333 - 3, pp. 794 - 802. SAN DIEGO(Estados Unidos de América): ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/08/2005. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006291X05011976>. ISSN 0006-291X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 3
Revista dentro del 25%: No
Posición de publicación: 97
Num. revistas en cat.: 97
Fuente de citas: WOS
Citas: 53

Resultados relevantes: Cytosolic Ca2+ mobilization, especially Ca2+ entry, is enhanced in platelets from type 2 diabetic individuals, which might result in platelet hyperaggregability. In the present study, we report an increased oxidant production in resting and stimulated platelets from diabetic donors. Pretreatment of platelets with catalase or trolox, an analog of vitamin E, reversed the enhanced Ca2+ entry, evoked by thapsigargin plus ionomycin or thrombin, observed in platelets from diabetic subjects, so that in the presence of these scavengers Ca2+ entry was similar in platelets from healthy and diabetic subjects. In contrast, mannitol was without effect on Ca2+ mobilization. Catalase and trolox reduced thrombin-induced aggregation in platelets from type 2 diabetic subjects, while mannitol did not modify thrombin-induced platelet hyperaggregability. We conclude that H2O2 and ONOO- are likely involved in the enhanced Ca2+ mobilization observed in platelets from type 2 diabetic patients, which might lead to platelet hyperactivity and hyperaggregability.

130 JA Rosado; PC Redondo; GM Salido; SO Sage; JA Pariente. Cleavage of SNAP-25 and VAMP-2 impairs store-operated Ca2+ entry in mouse pancreatic acinar cells. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. 288 - 1, pp. C214 - C221. BETHESDA(Estados Unidos de América): AMER PHYSIOLOGICAL SOC, 01/01/2005. Disponible en Internet en: <http://ajpcell.physiology.org/content/288/1/C214.long>. ISSN 0363-6143

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 3.942
Revista dentro del 25%: Si
Posición de publicación: 14
Num. revistas en cat.: 14
Fuente de citas: WOS
Citas: 6

Resultados relevantes: We recently reported that store-operated Ca(2+) entry (SOCE) in nonexcitable cells is likely to be mediated by a reversible interaction between Ca(2+) channels in the plasma membrane and the endoplasmic reticulum, a mechanism known as "secretion-like coupling." As for secretion, in this model the actin cytoskeleton plays a key regulatory role. In the present study we have explored the involvement of the secretory proteins synaptosome-associated protein (SNAP-25) and vesicle-associated membrane protein (VAMP) in SOCE in pancreatic acinar cells. Cleavage of SNAP-25 and VAMPs by treatment with botulinum toxin A (BoNT A) and tetanus toxin (TeTx), respectively, effectively inhibited amylase secretion stimulated by the physiological agonist CCK-8. BoNT A significantly reduced Ca(2+) entry induced by store depletion using thapsigargin or CCK-8. In addition, treatment with BoNT A once SOCE had been activated reduced Ca(2+) influx, indicating that SNAP-25 is needed for both the activation and maintenance of SOCE in pancreatic acinar cells. VAMP-2 and VAMP-3 are expressed in mouse pancreatic acinar cells. Both proteins associate with the cytoskeleton upon Ca(2+) store depletion, although only VAMP-2 seems to be sensitive to TeTx. Treatment of pancreatic acinar cells with TeTx reduced the activation of SOCE without affecting its maintenance. These findings support a role for SNAP-25

and VAMP-2 in the activation of SOCE in pancreatic acinar cells and show parallels between this process and secretion in a specialized secretory cell type.

131 A Gonzalez; MP Granados; GM Salido; JA Pariente. H2O2-induced changes in mitochondrial activity in isolated mouse pancreatic acinar cells. MOLECULAR AND CELLULAR BIOCHEMISTRY. 269 - 1-2, pp. 165 - 173. SPRINGER, 01/01/2005. ISSN 0300-8177

Tipo de producción: Artículo
Tipo de soporte: Revista

132 FR Saavedra; PC Redondo; JM Hernandez-Cruz; GM Salido; JA Pariente; JA Rosado. Store-operated Ca2+ entry and tyrosine kinase pp60(src) hyperactivity are modulated by hyperglycemia in platelets from patients with non insulin-dependent diabetes mellitus. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 432 - 2, pp. 261 - 268. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/12/2004. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0003986104005624>. ISSN 0003-9861

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 2.657
Revista dentro del 25%: No
Posición de publicación: 116
Num. revistas en cat.: 116
Fuente de citas: WOS
Citas: 29

Resultados relevantes: We have investigated the involvement of store-operated Ca(2+) entry (SOCE) in the abnormal platelet Ca(2+) homeostasis in patients with non insulin-dependent diabetes mellitus (NIDDM). In a medium containing 180 mg/dL glucose, platelets from NIDDM patients showed an increased SOCE compared to controls. We found that tyrosine phosphorylation was elevated in platelets from NIDDM patients. Consistent with this, the activity of the tyrosine kinase pp60(src) is enhanced in platelets from diabetic patients. When the experiments were performed in a medium containing 90 mg/dL both, SOCE and pp60(src) activity, were similar to those found in control platelets. Our results indicate that SOCE is altered in platelets from NIDDM patients probably due to the increased activity of the tyrosine kinase pp60(src). Both, SOCE and pp60(src) activity in platelets from NIDDM patients are more susceptible to the extracellular glucose concentration, which seems to be involved in the dysfunction of these mechanisms.

133 PC Redondo; AGS Harper; GM Salido; JA Pariente; SO Sage; JA Rosado. A role for SNAP-25 but not VAMPs in store-mediated Ca2+ entry in human platelets. JOURNAL OF PHYSIOLOGY-LONDON. 558 - 1, pp. 99 - 109. OXON(Reino Unido): BLACKWELL PUBLISHING LTD, 01/07/2004. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1664928/>. ISSN 0022-3751

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 4.346
Revista dentro del 25%: Si
Posición de publicación: 8
Num. revistas en cat.: 8
Fuente de citas: WOS
Citas: 22

Resultados relevantes: Store-mediated Ca2+ entry (SMCE) is a major mechanism for Ca2+ influx in non-excitable cells. Recently, a conformational coupling mechanism allowing coupling between transient receptor potential channels (TRPCs) and IP3 receptors has been proposed to activate SMCE. Here we have investigated the role of two soluble N-ethylmaleimide-sensitive-factor attachment protein receptors (SNAREs), which are involved in membrane trafficking and docking, in SMCE in human platelets. We found that the synaptosome-associated protein (SNAP-25) and the vesicle-associated membrane proteins (VAMP) coimmunoprecipitate with hTRPC1 in platelets. Treatment with botulinum toxin (BoNT) E or with tetanus toxin (TeTx), induced cleavage and inactivation of SNAP-25 and VAMPs, respectively. BoNTs significantly reduced thapsigargin- (TG) and agonist-evoked SMCE. Treatment with BoNTs once SMCE had been activated decreased

Ca2+ entry, indicating that SNAP-25 is required for the activation and maintenance of SMCE. In contrast, treatment with TeTx had no effect on either the activation or the maintenance of SMCE in platelets. Finally, treatment with BoNT E impaired the coupling between naturally expressed hTRPC1 and IP3 receptor type II in platelets. From these findings we suggest SNAP-25 has a role in SMCE in human platelets.

134 JA Rosado; JJ Lopez; AGS Harper; MT Harper; PC Redondo; JA Pariente; SO Sage; GM Salido. Two pathways for store-mediated calcium entry differentially dependent on the actin cytoskeleton in human platelets. JOURNAL OF BIOLOGICAL CHEMISTRY. 279 - 28, pp. 29231 - 29235. BETHESDA(Estados Unidos de América): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/07/2004. Disponible en Internet en: <http://www.jbc.org/content/279/28/29231.long>. ISSN 0021-9258

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 8
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 6.355
Revista dentro del 25%: Si
Posición de publicación: 31
Num. revistas en cat.: 31
Fuente de citas: WOS
Citas: 29

Resultados relevantes: A major pathway for stimulated Ca(2+) entry in non-excitable cells is activated following depletion of intracellular Ca(2+) stores. Secretion-like coupling between elements in the plasma membrane (PM) and Ca(2+) stores has been proposed as the most likely mechanism to activate this store-mediated Ca(2+) entry (SMCE) in several cell types. Here we identify two mechanisms for SMCE in human platelets activated by depletion of two independent Ca(2+) pools, which are differentially modulated by the actin cytoskeleton. Ca(2+) entry induced by depletion of a 2,5-di-(tert-butyl)-1,4-hydroquinone (TBHQ)-sensitive pool is increased by disassembly of the actin cytoskeleton and that induced by a TBHQ-insensitive pool is reduced. Stabilization of the actin cytoskeleton prevented Ca(2+) entry by both mechanisms. We propose that the membrane-associated actin network prevents constitutive Ca(2+) entry via both pathways. Reorganization of the actin cytoskeleton permits the activation of Ca(2+) entry via both mechanisms, but only SMCE activated by the TBHQ-insensitive pool requires new actin polymerization, which may support membrane trafficking toward the PM.

135 S Morales; PJ Camello; S Alcon; GM Salido; G Mawe; MJ Pozo. Coactivation of capacitative calcium entry and L-type calcium channels in guinea pig gallbladder. AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY. 286 - 6, pp. G1090 - G1100. BETHESDA(Estados Unidos de América): AMER PHYSIOLOGICAL SOC, 01/06/2004. Disponible en Internet en: <http://ajpgi.physiology.org/content/286/6/G1090.long>. ISSN 0193-1857

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 3.479
Revista dentro del 25%: Si
Posición de publicación: 14
Num. revistas en cat.: 74
Fuente de citas: WOS
Citas: 28

Resultados relevantes: We have evaluated the presence of capacitative Ca(2+) entry (CCE) in guinea pig gallbladder smooth muscle (GBSM), including a possible relation with activation of L-type Ca(2+) channels. Changes in cytosolic Ca(2+) concentration induced by Ca(2+) entry were assessed by digital microfluorometry in isolated, fura 2-loaded GBSM cells. Application of thapsigargin, a specific inhibitor of the Ca(2+) store pump, induced a transient Ca(2+) release followed by sustained entry of extracellular Ca(2+). Depletion of the stores with thapsigargin, cyclopiazonic acid, ryanodine and caffeine, high levels of the Ca(2+)-mobilizing hormone cholecystokinin octapeptide, or simple removal of external Ca(2+) resulted in a sustained increase in Ca(2+) entry on subsequent reapplication of Ca(2+). This entry was attenuated by 2-aminoethoxydiphenylborane, L-type Ca(2+) channel blockade, pinacidil, and Gd(3+). Accumulation of the voltage-sensitive dye 3,3'-dipentylcarbocyanine and direct intracellular recordings showed that depletion of the stores is sufficient for depolarization of the plasma membrane. Contractility studies in intact gallbladder muscle strips showed that CCE induced contractions.

The CCE-evoked contraction was sensitive to 2-aminoethoxydiphenylborane, L-type Ca(2+) channel blockers, and Gd(3+). We conclude that, in GBSM, release of Ca(2+) from internal stores activates a CCE pathway and depolarizes plasma membrane, allowing coactivation of voltage-operated L-type Ca(2+) channels. This process may play a role in excitation-contraction coupling in GBSM.

136 MP Granados; GM Salido; JA Pariente; A Gonzalez. Generation of ROS in response to CCK-8 stimulation in mouse pancreatic acinar cells. MITOCHONDRION. 3 - 5, pp. 285 - 296. OXFORD(Reino Unido): ELSEVIER SCI LTD, 01/04/2004. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1567724904000224>. ISSN 1567-7249

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 1.537
Revista dentro del 25%: No
Posición de publicación: 113
Num. revistas en cat.: 155
Fuente de citas: WOS
Citas: 21

Resultados relevantes: In the present study we have studied the changes in the intracellular reduction-oxidation state in mouse pancreatic acinar cells following stimulation with cholecystokinin octapeptide (CCK-8) and its dependence on Ca2+ mobilization. In our investigations cytosolic Ca2+ concentration and reactive oxygen species (ROS) production were determined by loading of cells with fura-2 and CM-H2DCF-DA, respectively. Changes in these parameters were determined by following changes in fluorescence in the cuvette of a spectrofluorimeter. The results show that stimulation of cells with CCK-8 and/or the sarco-endoplasmic reticulum Ca2+ Pump inhibitor, thapsigargin (Tps), both induced changes in cytosolic free Ca2+ concentration and led to an increase in fluorescence of CM-H2DCF-DA, reflecting an increase in oxidation. In the presence of Tps, addition of CCK-8 did not significantly increase fluorescence compared to that evoked by the SERCA inhibitor. Similar results were obtained in the absence of extracellular Ca2+ and in the presence of EGTA. When the cells were challenged in the presence of the intracellular Ca2+ chelator BAPTA and in the absence of extracellular Ca2+ the responses to both CCK-8 and Tps were reduced although not completely inhibited. The mitochondrial uncoupler carbonyl cyanide p-trifluoromethoxy-phenylhydrazone and the inhibitor of the electron transport chain, antimycin, evoked a marked increase in CM-H2DCF-DA fluorescence and completely inhibited CCK-8 and Tps-evoked responses, indicating that ROS are generated in the mitochondria. In summary, stimulation of mouse pancreatic acinar cells with CCK-8 leads to generation of ROS, and this effect may be derived from Ca2+ mobilization from intracellular stores and involves mitochondrial metabolism. (C) 2004 Elsevier B.V. and Mitochondria Research Society. All rights reserved.

137 PC Redondo; GM Salido; JA Pariente; JA Rosado. Dual effect of hydrogen peroxide on store-mediated calcium entry in human platelets. BIOCHEMICAL PHARMACOLOGY. 67 - 6, pp. 1065 - 1076. OXFORD(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/03/2004. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295203008591>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 3.436
Revista dentro del 25%: Si
Posición de publicación: 38
Num. revistas en cat.: 38
Fuente de citas: WOS
Citas: 46

Resultados relevantes: Redox regulation is important for the modulation of cytosolic Ca(2+) concentration. Hence, we have investigated the effect of H(2)O(2) on store-mediated Ca(2+) entry (SMCE). In fura-2-loaded human platelets treatment with H(2)O(2) resulted in a concentration-dependent increase in Ca(2+) release from intracellular stores, while the effect on Ca(2+) entry was biphasic. In addition, 1mM H(2)O(2) reduced SMCE induced by agonists. The inhibitory effect of 1mM H(2)O(2) was prevented by inhibition of actin polymerization with cytochalasin D. Consistent with this, we found that 10microM H(2)O(2) and store depletion by treatment with thapsigargin plus ionomycin induced a similar temporal sequence of actin reorganization, while exposure to

1mM H(2)O(2) shifted the dynamics between polymerization and depolymerization in favor of the former. One millimolar H(2)O(2)-induced polymerization was reduced by treatment with methyl 2,5-dihydroxycinnamate and farnesylthioacetic acid, inhibitors of tyrosine kinases and Ras superfamily proteins, respectively. Finally, exposure to 1mM H(2)O(2) significantly increased store depletion-induced p60(src) activation. We conclude that H(2)O(2) exerted a biphasic effect on SMCE. The inhibitory role of high H(2)O(2) concentrations is mediated by an abnormal actin reorganization pattern involving both Ras- and tyrosine kinases-dependent pathways.

138 PC Redondo; GM Salido; JA Rosado; JA Pariente. Effect of hydrogen peroxide on Ca2+ mobilisation in human platelets through sulphydryl oxidation dependent and independent mechanisms. BIOCHEMICAL PHARMACOLOGY. 67 - 3, pp. 491 - 502. OXFORD(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/02/2004. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295203007676>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 3.436
Revista dentro del 25%: Si
Posición de publicación: 38
Num. revistas en cat.: 38
Fuente de citas: WOS
Citas: 58

Resultados relevantes: Using Fura-2-loaded human platelets we studied the nature of the mechanisms involved in Ca2+ signalling mediated by H2O2. In a Ca2+-free medium, H2O2 (10 microM-100 mM) induced a concentration-dependent increase in [Ca2+]i. Depletion of either agonist-sensitive or mitochondrial Ca2+ pools reduced this effect while depletion of both stores abolished it. Xestospongin C, an inositol 1,3,5-trisphosphate (IP3) receptor inhibitor, reduced Ca2+ release evoked by 1 mM H2O2 by 45%, indicating that H2O2-induced Ca2+ release involves interaction with IP3 receptors. Blockade of the IP3 turnover by lithium or treatment with U-73122 did not modify H2O2-induced Ca2+ release from the agonist-sensitive pool, suggesting the involvement of a mechanism independent of IP3 generation. H2O2 inhibited Ca2+ reuptake into the agonist-sensitive stores mediated by the sarcoendoplasmic reticulum Ca2+ ATPase (SERCA). Thimerosal (5 microM), a sulphydryl reagent, induced Ca2+ release from the agonist-sensitive stores. This event was impaired by treatment with 2 mM DTT, which also inhibited H2O2-induced Ca2+ release from the agonist-sensitive pool but not from mitochondria. H2O2 reduced the ability of the plasma membrane Ca2+ ATPase (PMCA) to extrude Ca2+ by 75%, an effect that was unaffected by DTT. Consistent with this, thimerosal did not modify the PMCA activity. Finally, exposure to H2O2 triggered platelet aggregation, which was slower than that observed after agonist stimulation. We conclude that H2O2 induced Ca2+ release from agonist-sensitive stores by oxidation of sulphydryl groups in SERCA and the IP3 receptors independently of IP3 generation. In addition, H2O2 induced Ca2+ release from mitochondria and inhibited the PMCA activity by different mechanisms in human platelets.

139 JA Rosado; PC Redondo; GM Salido; E Gomez-Arteta; SO Sage; JA Pariente. Hydrogen peroxide generation induces pp60(src) activation in human platelets - Evidence for the involvement of this pathway in store-mediated calcium entry. JOURNAL OF BIOLOGICAL CHEMISTRY. 279 - 3, pp. 1665 - 1675. BETHESDA(Estados Unidos de América): AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 01/01/2004. Disponible en Internet en: <http://www.jbc.org/content/279/3/1665.long>. ISSN 0021-9258

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 6.355
Revista dentro del 25%: Si
Posición de publicación: 31
Num. revistas en cat.: 31
Fuente de citas: WOS
Citas: 92

Resultados relevantes: Reactive oxygen species, such as H2O2, have been recognized as intracellular messengers involved in several cell functions. Here we report the activation of the tyrosine kinase pp60(src)

by H2O2, a mechanism required for the activation of store-mediated Ca2+ entry (SMCE) in human platelets. Treatment of platelets with H2O2 resulted in a time- and concentration-dependent activation of pp60(src). Incubation with GF 109203X, a protein kinase C (PKC) inhibitor, prevented H2O2-induced pp60(src) activation. In contrast, dimethyl-BAPTA loading did not affect this response, suggesting that activation of pp60(src) by H2O2 is independent of increases in [Ca2+](i). Cytochalasin D, an inhibitor of actin polymerization, significantly reduced H2O2-induced pp60(src) activation. We found that platelet stimulation with thapsigargin (TG) plus ionomycin (Iono) or thrombin induced rapid H2O2 production, a mechanism independent of elevations in [Ca2+](i). Treatment of platelets with catalase attenuated TG plus Iono- and thrombin-induced activation of pp60(src). In addition, catalase as well as the pp60(src) inhibitor, PP1, reduced both the activation of SMCE and the coupling between the hTrp1 and the IP(3)R type II without having any effect on the maintenance of SMCE. Consistent with the role of PKC in the activation of pp60(src) by H2O2, the PKC inhibitors GF 109202X and Ro-31-8220 were found to reduced SMCE in platelets. This study suggests that platelet activation with TG plus Iono or thrombin is associated with H2O2 production, which acts as a second messenger by stimulating pp60(src) by a PKC-dependent pathway and is involved in the activation of SMCE in these cells.

140 A Gonzalez; MP Granados; GM Salido; JA Pariente. Changes in mitochondrial activity evoked by cholecystokinin in isolated mouse pancreatic acinar cells. CELLULAR SIGNALLING. 15 - 11, pp. 1039 - 1048. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/11/2003. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656803000676>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 5.185
Revista dentro del 25%: Si
Posición de publicación: 30
Num. revistas en cat.: 156
Fuente de citas: WOS
Citas: 16

Resultados relevantes: In the present study, we have employed confocal laser scanning microscopy to investigate the effect that stimulation of mouse pancreatic acinar cells with the secretagogue cholecystokinin (CCK) has on mitochondrial activity. We have monitored changes in cytosolic as well as mitochondrial Ca2+ concentrations, mitochondrial membrane potential and FAD autofluorescence by loading the cells with fluo-3, rhod-2 or JC-1, respectively. Our results show that stimulation of cells with cholecystokinin led to release of Ca2+ from intracellular stores that then accumulated into mitochondria. In the presence of the hormone a depolarization of mitochondrial membrane potential was observed, which partially recovered; in addition a transient increase in FAD autofluorescence could be observed. Similarly, treatment of cells with thapsigargin induced increases in mitochondrial Ca2+ and FAD autofluorescence, and depolarized mitochondria. Pretreament of cells with thapsigargin blocked cholecystokinin-evoked changes. Similar results were obtained when the cells were incubated in the presence of rotenone, which blocks the mitochondrial electron transport chain. Our findings are consistent with changes in mitochondrial activity in response to stimulation of pancreatic acinar cells with cholecystokinin. Following stimulation, mitochondria take up Ca2+ that could in turn activate the mitochondrial machinery that may match the energy supply necessary for the cell function during secretion, suggesting that Ca2+ can act as a regulator of mitochondrial activity.

141 PC Redondo; AI Lajas; GM Salido; A Gonzaleaz; JA Rosado; JA Pariente. Evidence for secretion-like coupling involving pp60(src) in the activation and maintenance of store-mediated Ca2+ entry in mouse pancreatic acinar cells. BIOCHEMICAL JOURNAL. 370 - Part 1, pp. 255 - 263. London, Inner London(Reino Unido): PORTLAND PRESS, 01/02/2003. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1223155/>. ISSN 0264-6021

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 4.101
Revista dentro del 25%: Si
Posición de publicación: 56
Num. revistas en cat.: 56

Fuente de citas: WOS **Citas:** 40

Resultados relevantes: Store-mediated Ca2+ entry (SMCE) is one of the main pathways for Ca2+ influx in non-excitable cells. Recent studies favour a secretion-like coupling mechanism to explain SMCE, where Ca2+ entry is mediated by an interaction of the endoplasmic reticulum (ER) with the plasma membrane (PM) and is modulated by the actin cytoskeleton. To explore this possibility further we have now investigated the role of the actin cytoskeleton in the activation and maintenance of SMCE in pancreatic acinar cells, a more specialized secretory cell type which might be an ideal cellular model to investigate further the properties of the secretion-like coupling model. In these cells, the cytoskeletal disrupters cytochalasin D and latrunculin A inhibited both the activation and maintenance of SMCE. In addition, stabilization of a cortical actin barrier by jasplakinolide prevented the activation, but not the maintenance, of SMCE, suggesting that, as for secretion, the actin cytoskeleton plays a double role in SMCE as a negative modulator of the interaction between the ER and PM, but is also required for this mechanism, since the cytoskeleton disrupters impaired Ca2+ entry. Finally, depletion of the intracellular Ca2+ stores induces cytoskeletal association and activation of pp60(src), which is independent on Ca2+ entry. pp60(src) activation requires the integrity of the actin cytoskeleton and participates in the initial phase of the activation of SMCE in pancreatic acinar cells.

142 JA Rosado; A Gonzalez; GM Salido; JA Pariente. Effects of reactive oxygen species on actin filament polymerisation and amylase secretion in mouse pancreatic acinar cells. CELLULAR SIGNALLING. 14 - 6, pp. 547 - 556. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/06/2002. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S089865680100273X>. ISSN 0898-6568

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - CELL BIOLOGY
Índice de impacto: 4.362 **Revista dentro del 25%:** Si
Posición de publicación: 35

Fuente de citas: WOS **Citas:** 31

Resultados relevantes: The present study investigates the effect of reactive oxygen species (ROS) on actin filament reorganisation and its relevance to exocytosis in pancreatic acinar cells. Treatment of pancreatic acini with cholecystokinin (CCK-8) induced spatial and temporal changes in actin filament reorganisation with an initial depolymerisation of the apical actin barrier followed by an increase in the actin filament content in the subapical area leading to amylase release. Hydrogen peroxide (H(2)O(2)) increased actin filament content and potentiated the polymerizing effects of CCK-8 in these cells but abolished the disruption of the apical actin layer and amylase release induced by CCK-8. Similar to CCK-8, ROS generated by the oxidation of hypoxanthine (HX) with xanthine oxidase (XOD) induced an initial decrease in actin filaments located under the apical membrane followed by a smaller increase in the content of actin filaments in the subapical area. XOD-generated ROS are able to increase amylase release in pancreatic acini although combination with CCK-8 leads to abnormal exocytosis. We provide evidence that indicates that CCK-8- and ROS-induced actin reorganisation is entirely dependent on Ca(2+) mobilisation and independent of PKC activation. The regulation of the actin cytoskeleton by ROS might be involved in radical-induced cell injury in pancreatic acinar cells.

143 MD Yago; JA Tapia; GM Salido; E Adeghate; LMO Juma; E Martinez-Victoria; M Manas; J Singh. Effect of sodium nitroprusside and 8-bromo cyclic GMP on nerve-mediated and acetylcholine-evoked secretory responses in the rat pancreas. BRITISH JOURNAL OF PHARMACOLOGY. 136 - 1, pp. 49 - 56. LONDON(Reino Unido): NATURE PUBLISHING GROUP, 01/05/2002. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1762119/>. ISSN 0007-1188

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 3.450
Posición de publicación: 26

Fuente de citas: WOS **Citas:** 7

Resultados relevantes: The effects of sodium nitroprusside (SNP) and 8-bromo-guanosine 3'5' cyclic monophosphate (8-Br-cyclic GMP) on nerve-mediated and acetylcholine (ACh)-evoked amylase secretion, tritiated choline ([3H]-choline) release and on intracellular free calcium concentration ([Ca2+]i) in the isolated rat pancreas were investigated. Electrical field stimulation (EFS; 10 Hz) and ACh (1 x 10(-5) M) caused large increases in amylase output from pancreatic segments. The response to ACh was blocked by atropine (1 x 10(-5) M) whereas the EFS-evoked response was markedly reduced but not abolished. In contrast, pretreatment with tetrodotoxin (1 x 10(-6) M) abolished the secretory effect of EFS. Either SNP (1 x 10(-3) M) or 8-Br-cyclic GMP (1 x 10(-4) M) inhibited amylase secretion compared to basal. Combining either SNP or 8-Br-cyclic GMP with EFS resulted in a marked decrease in amylase output compared to EFS alone. In contrast, either SNP or 8-Br-cyclic GMP had no significant effect on the amylase response to ACh. When extracellular Ca2+ concentration ([Ca2+]o) was elevated from 2.56 mM to 5.12 mM, SNP failed to inhibit the response to EFS. EFS stimulated the release of 3H from pancreatic segments preloaded with [3H]-choline. Either SNP or 8-Br-cyclic GMP had no effect on basal 3H release but significantly reduced the EFS-evoked response. In fura-2 loaded acinar cells, SNP elicited a small decrease in [Ca2+]i compared to basal and had no effect on the ACh-induced [Ca2+]i peak response. Nitric oxide may modulate the release of endogenous neural ACh in response to EFS in the rat pancreas.

144 A Gonzalez; A Schmid; GM Salido; PJ Camello; JA Pariente. XOD-catalyzed ROS generation mobilizes calcium from intracellular stores in mouse pancreatic acinar cells. CELLULAR SIGNALLING. 14 - 2, pp. 153 - 159. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/02/2002. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656801002479>. ISSN 0898-6568

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** CELL BIOLOGY

Índice de impacto: 4.362

Posición de publicación: 35

Resultados relevantes: In fura-2 loaded isolated mouse pancreatic acinar cells, xanthine oxidase (XOD)-catalyzed reactive oxygen species (ROS) generation caused an increase in the cytosolic Ca(2+) concentration ([Ca(2+)](i)) by release of Ca(2+) from intracellular stores. The ROS-induced Ca(2+) signals showed large variability in shape and time-course and resembled in part Ca(2+) signals in response to physiological secretagogues. ROS-induced Ca(2+) mobilization started at the luminal cell pole and spread towards the basolateral side in a wave manner. ROS-evoked Ca(2+) responses were not inhibited by the phospholipase C (PLC) inhibitor U73122 (10 microM). Neither 2-aminoethoxy-diphenylborate (2-APB) (70 microM) nor ryanodine (50 microM) suppressed ROS-evoked Ca(2+) release. ROS still released Ca(2+) when the endoplasmic reticulum Ca(2+)-ATPase was blocked with thapsigargin (1 microM), or when rotenone (10 microM) was added to release Ca(2+) from mitochondria. Our results suggest that pancreatic acinar cells ROS do not unspecifically affect Ca(2+) homeostasis. ROS primarily affect Ca(2+) stores located in the luminal cell pole, which is also the trigger zone for agonist-induced Ca(2+) signals. Release of Ca(2+) induces Ca(2+) waves carried by Ca(2+)-induced Ca(2+) release and produces thereby global Ca(2+) signals. Under oxidative stress conditions, the increase in [Ca(2+)](i) could be one mechanism contributing to an overstimulation of the cell which could result in cell dysfunction and cell damage

145 C Camello-Almaraz; GM Salido; JA Pariente; PJ Camello. Role of mitochondria in Ca2+ oscillations and shape of Ca2+ signals in pancreatic acinar cells. BIOCHEMICAL PHARMACOLOGY. 63 - 2, pp. 283 - 292. OXFORD(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/01/2002. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295201008309>. ISSN 0006-2952

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 2 **Grado de contribución:** Autor/a o coautor/a de artículo en revista sin comité externo evaluador de admisión

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHARMACOLOGY & PHARMACY

Índice de impacto: 3.542

Posición de publicación: 24

Fuente de citas: WOS **Citas:** 28

Resultados relevantes: We studied the role of mitochondria in Ca(2+) signals in fura-2 loaded exocrine pancreatic acinar cells. Mitochondrial depolarization in response to carbonylcyanide-p-tryfluoromethoxyphenyl hydrazone or rotenone (assessed by confocal microscopy using rhodamine-123) induced a partial but statistically significant reduction in the decay of Ca(2+) signals under different experimental conditions. Spreading of Ca(2+) waves evoked by the pancreatic secretagogue cholecystokinin cholecystokinin octapeptide was accelerated by mitochondrial inhibitors, whereas the cytosolic Ca(2+) concentration ([Ca(2+)](i)) oscillations in response to physiological levels of this hormone were suppressed by rotenone and carbonylcyanide-p-tryfluoromethoxyphenyl hydrazone. Oligomycin, an inhibitor of mitochondrial ATP synthase, did no affect either propagation of calcium waves nor [Ca(2+)](i) oscillations. Individual mitochondria of rhod-2 loaded acinar cells showed heterogeneous matrix Ca(2+) concentration increases in response to oscillatory and maximal levels of cholecystokinin octapeptide. On the other hand, using Ba(2+) for unequivocal study of capacitative calcium entry we found that mitochondrial inhibitors did not affect this process. Our results show that although the role of mitochondria as a Ca(2+) clearing system in exocrine cells is quantitatively secondary, they play an essential role in the spatial propagation of Ca(2+) waves and in the development of [Ca(2+)](i) oscillations.

146 S Alcon; S Morales; PJ Camello; GM Salido; SM Miller; MJ Pozo. Relaxation of canine gallbladder to nerve stimulation involves adrenergic and non-adrenergic non-cholinergic mechanisms. NEUROGASTROENTEROLOGY AND MOTILITY. 13 - 6, pp. 555 - 566. OXFORD(Reino Unido): BLACKWELL PUBLISHING LTD, 01/12/2001. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1046/j.1365-2982.2001.00286.x/abstract;jsessionid=E64D0BC1CCAB6390670154A6A1D8702A.d01t03>. ISSN 1350-1925

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 4 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR) **Categoría:** CLINICAL NEUROLOGY
Índice de impacto: 2.500
Posición de publicación: 27

Fuente de citas: WOS **Citas:** 10

Resultados relevantes: Electrical field stimulation (EFS) of dog gallbladder strips induced a frequency-dependent contractile response followed by an off-relaxation that was turned into a pure inhibitory response after atropine pretreatment. Guanethidine reduced the atropine-induced relaxing responses, so an adrenergic mechanism can partially account for the nerve-mediated gallbladder relaxation. However, guanethidine pretreatment also revealed a nonadrenergic noncholinergic (NANC) relaxation induced by EFS, which was frequency independent. NANC relaxations were reduced by L-arginine methyl ester (L-NAME, 100 micromol L-1), a nitric oxide synthase inhibitor (D-p-Cl-Phe6, Leul7; 10 micromol L-1), a vasoactive intestinal peptide (VIP) receptor antagonist, and an inhibitor of haem oxygenase, (copper protoporphyrin IX; CuPP-IX; 10 micromol L-1), suggesting that nitric oxide (NO), VIP and carbon monoxide (CO), respectively, are released in response to EFS. Immunoreactivities for haem oxygenase-2 (HO-2) and VIP, and histochemical staining for NADPH diaphorase were observed in nerve cell bodies and fibres, demonstrating the presence of CO, VIP and NO as putative NANC neurotransmitters in dog gallbladder. These data support the hypothesis that NO, VIP and CO contribute to NANC relaxation of the canine gallbladder

147 A Gonzalez; GM Salido. Participation of mitochondria in calcium signalling in the exocrine pancreas. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 57 - 4, pp. 331 - 339. PAMPLONA(España): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 01/12/2001. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pubmed/12005036>. ISSN 1138-7548

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 2 **Grado de contribución:** Autor/a o coautor/a de revisión
Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHYSIOLOGY
Índice de impacto: 0.639 **Revista dentro del 25%:** No
Posición de publicación: 68

Fuente de citas: WOS **Citas:** 7

Resultados relevantes: This minireview is an attempt to put together some of the recent advances regarding the implications of mitochondria in Ca2+ homeostasis. Although the main role of this cytoplasmic organelle is ATP supply to the cell, during the past years strong evidence has been accumulated supporting an active role of these organelles in Ca2+ handling by the cell. The discovery of mitochondrial specific fluorescent dyes has permitted the study of these organelles within living cells. Due to its ubiquitous localisation within the cytosol, mitochondria would play an important role in the modulation of the subcellular patterns of Ca2+ signalling, and therefore would act as modulators of Ca2+-dependent cellular processes.

148 A Gonzalez-Mateos; PJ Camello; GM Salido; JA Pariente. Effect of xanthine oxidase-catalyzed reactive oxygen species generation on secretagogue-evoked calcium mobilization in mouse pancreatic acinar cells. BIOCHEMICAL PHARMACOLOGY. 62 - 12, pp. 1621 - 1627. OXFORD(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/12/2001. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S000629520100795X>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 3.340
Posición de publicación: 25
Fuente de citas: WOS
Citas: 6

Resultados relevantes: In the present study we have employed fura-2 loaded isolated mouse pancreatic acinar cells to monitor the effect that xanthine oxidase (XOD)-catalyzed reactive oxygen species generation presents on Ca(2+) mobilization by the secretagogue cholecystokinin octapeptide (CCK-8). Our results show that perfusion of pancreatic acinar cells with CCK-8 at a physiological concentration (20 pM) induced low frequency oscillations in intracellular free calcium concentration ([Ca(2+)](i)) at a rate of 1 per minute; this oscillatory pattern was completely inhibited by the introduction in the perifusion medium of 20 mU/mL XOD to generate reactive oxygen species. In addition, perfusion of pancreatic acinar cells with 20 mU/mL XOD in the absence of extracellular calcium led to a transient increase in [Ca(2+)](i,) that blocked the initiation of the Ca(2+) signals in response to 20 pM CCK-8. Similarly, XOD was also able to block acetylcholine evoked Ca(2+) spikes. However, reactive oxygen species had no effect either on Ca(2+) extrusion or on re-uptake into intracellular stores, but CCK-8-evoked Ca(2+) entry was reduced by XOD. In conclusion, our results show that XOD-evoked reactive oxygen species generation leads to a reduction either of Ca(2+) mobilization, following stimulation of pancreatic acinar cells with the Ca(2+)-mobilizing agonists CCK-8 and acetylcholine, and Ca(2+) influx evoked by CCK-8 depletion of intracellular stores. The possible XOD inhibitory mechanism on Ca(2+) mobilization by agonists is discussed.

149 RL Ferrer; J Medrano; R Calpena; M Diego; ML Graells; MV Molto; MT Perez; MI Oliver; GM Salido. Effect of exogenous cholecystokinin and secretin on pancreatic secretion of insulin and glucagon in rats - In vivo model without hepatic filter. DIGESTIVE DISEASES AND SCIENCES. 46 - 10, pp. 2127 - 2133. NEW YORK(Estados Unidos de América): KLUWER ACADEMIC/PLENUM PUBL, 01/10/2001. Disponible en Internet en: <http://link.springer.com/article/10.1023%2FA%3A1011994327575>. ISSN 0163-2116

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 9
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - GASTROENTEROLOGY & HEPATOLOGY
Índice de impacto: 1.516
Posición de publicación: 25
Fuente de citas: WOS
Citas: 4

Resultados relevantes: In order to study the effect of cholecystokinin and secretin on the endocrine function of the pancreas, we have developed an experimental model that we have applied to a total of 30 anesthetized rats stimulated with physiological or supraphysiological doses of cholecystokinin and secretin administered

intravenously by continuous infusion. Our results show that the serum insulin concentration increases after the supramaximum dose of cholecystokinin is infused, while that of glucagon increases after the maximum dose of this hormone. In case of secretin, the serum glucagon level increases after the supramaximum dose, while that of insulin is not affected by any dose. We conclude that after infusion of physiological doses of cholecystokinin, the pancreatic secretion of glucagon is modified but not that of insulin, while secretin has no effect on the endocrine pancreatic secretion of either insulin or glucagon upon the same conditions.

150 E Sarri; B Ramos; GM Salido; E Claro. The cholecystokinin analogues JMV-180 and CCK-8 stimulate phospholipase C through the same binding site of CCKA receptor in rat pancreatic acini. BRITISH JOURNAL OF PHARMACOLOGY. 133 - 8, pp. 1227 - 1234. HAMPSHIRE(Reino Unido): NATURE PUBLISHING GROUP, 01/08/2001. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1621142/>. ISSN 0007-1188

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 3.502
Posición de publicación: 22
Fuente de citas: WOS
Citas: 5

Resultados relevantes: 1. This study was designed to address the controversy related to the involvement of phospholipase C in the signalling pathway linked to CCK(A) receptor stimulation by the cholecystokinin analogue JMV-180, a full agonist for amylase release, in rat pancreatic acini. 2. JMV-180 was shown to stimulate phospholipase C by measuring the incorporation of [(32)P]-orthophosphoric acid ([(32)P]-Pi) into phosphatidic acid (PtdOH) and phosphatidylinositol (PtdIns). Both responses elicited by JMV-180 were time and concentration dependent. Maximal effects elicited by JMV-180 were 39.08+/-0.72 and 8.02+/-0.40% for the labelling of [(32)P]-PtdIns and [(32)P]-PtdOH, respectively, as compared to the maximal effects of CCK-8, a full agonist of the CCK(A) receptor. 3. [(32)P]-Pi incorporation into PtdOH and PtdIns was sensitive to lithium, demonstrating that both responses are a consequence of phospholipase C activation. However, since lithium blocks the phosphoinositide cycle by an uncompetitive mechanism, its effect was only apparent at high concentrations of CCK-8 (>10 pM), which elicited stimuli above 20 and 60% of the maximal [(32)P]-PtdOH and [(32)P]-PtdIns labelling, respectively. 4. JMV-180 inhibited the incorporation of [(32)P]-Pi into PtdOH and PtdIns as stimulated by CCK-8, down to its own maximal effect. The estimated IC(50) values for the inhibition curves were not significantly different from those calculated assuming the same single binding site for both agonists. These results indicated that the well established role of JMV-180 as a partial agonist for CCK(A) receptor-linked signalling responses, also applies for the stimulation of phospholipase C. 5. The comparison of CCK-8 and JMV-180 dose-response curves of amylase release to those of PtdIns and PtdOH labelling with [(32)P]-Pi showed the existence of an amplification mechanism between phospholipase C and amylase release for both agonists. 6. In conclusion, we show that JMV-180, as well as CCK-8, stimulate phospholipase C upon interaction with the same binding site at the CCK(A) receptor in rat pancreatic acini.

151 Al Lajas; V Sierra; PJ Camello; GM Salido; JA Pariente. Vanadate inhibits the calcium extrusion in rat pancreatic acinar cells. CELLULAR SIGNALLING. 13 - 6, pp. 451 - 456. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/06/2001. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656801001619>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 3.398
Posición de publicación: 42
Fuente de citas: WOS
Citas: 10

Resultados relevantes: Our objective was to evaluate the role of vanadate on calcium extrusion in Fura-2-loaded rat pancreatic acinar cells by digital microscopic fluorimetry and spectrofluorimetry. In the absence of extracellular

calcium, perfusion of pancreatic acinar cells with 1 nM CCK-8 and 1 mM vanadate did not significantly affect the typical transient calcium spike induced by CCK-8, but the plateau phase of calcium in response to CCK-8 remained elevated. In addition, vanadate was able to inhibit calcium efflux evoked by CCK-8 when we determined directly calcium transport across plasma membrane using Calcium Green-5N hexapotassium salt (cell impermeant form) in cell populations. The effect of vanadate on calcium extrusion was strongly blocked by the sulfhydryl-reducing agent dithiothreitol (DTT). The present results demonstrate that vanadate is able to irreversibly inhibit the calcium extrusion. This effect of vanadate can be blocked using DTT, indicating that its action is probably mediated by oxidation of sulfhydryl groups of Ca2+-ATPases

152 JA Pariente; C Camello; PJ Camello; GM Salido. Release of calcium from mitochondrial and nonmitochondrial intracellular stores in mouse pancreatic acinar cells by hydrogen peroxide. JOURNAL OF MEMBRANE BIOLOGY. 179 - 1, pp. 27 - 35. NEW YORK(Estados Unidos de América): SPRINGER-VERLAG, 01/01/2001. Disponible en Internet en: <http://link.springer.com/>. ISSN 0022-2631

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 2.787
Revista dentro del 25%: Si
Posición de publicación: 20

Fuente de citas: WOS
Citas: 70

Resultados relevantes: In the present study we have studied how [Ca2+](i) is influenced by H2O2 in collagenase-dispersed mouse pancreatic acinar cells and the mechanism underlying this effect by using a digital microspectrofluorimetric system. In the presence of normal extracellular calcium concentration, perfusion of pancreatic acinar cells with 1 mm H2O2 caused a slow sustained [Ca2+](i) increase, reaching a stable plateau after 10-15 min of perfusion. This increase induced by H2O2 was also observed in a nominally calcium-free medium, reflecting the release of calcium from intracellular store(s). Application of 1 mm H2O2 to acinar cells, in which nonmitochondrial agonist-releasable calcium pools had been previously depleted by a maximal concentration of CCK-8 (1 nm) or thapsigargin (0.5 microm) was still able to induce calcium release. Similar results were observed when thapsigargin was substituted for the mitochondrial uncoupler FCCP (0.5 microm). By contrast, simultaneous addition of thapsigargin and FCCP clearly abolished the H2O2-induced calcium increase. Interestingly, co-incubation of intact pancreatic acinar cells with CCK-8 plus thapsigargin and FCCP in the presence of H2O2 did not significantly affect the transient calcium spike induced by the depletion of nonmitochondrial and mitochondrial agonist-releasable calcium pools, but was followed by a sustained increase of [Ca2+](i). In addition, H2O2 was able to block calcium efflux evoked by CCK and thapsigargin. Finally, the transient increase in [Ca2+](i) induced by H2O2 was abolished by an addition of 2 mm dithiothreitol (DTT), a sulfhydryl reducing agent. Our results show that H2O2 releases calcium from CCK-8- and thapsigargin-sensitive intracellular stores and from mitochondria. The action of H2O2 is likely mediated by oxidation of sulfhydryl groups of calcium-ATPases.

153 B Ramos; GM Salido; ML Campo; E Claro. Inhibition of phosphatidylcholine synthesis precedes apoptosis induced by C-2-ceramide: protection by exogenous phosphatidylcholine. NEUROREPORT. 11 - 14, pp. 3103 - 3108. PHILADELPHIA(Estados Unidos de América): LIPPINCOTT WILLIAMS \& WILKINS, 01/09/2000. Disponible en Internet en: <http://meta.wkhealth.com/pt/pt-core/template-journal/lwwgateway/media/landingpage.htm?issn=0959-4965&volume=11&issue=14&spage=3103>. ISSN 0959-4965

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - NEUROSCIENCES
Índice de impacto: 2.696
Posición de publicación: 62

Fuente de citas: WOS
Citas: 18

Resultados relevantes: Cerebellar granule neurons in primary culture underwent apoptosis when exposed to C2-ceramide. Addition of exogenous phosphatidylcholine (PtdCho) resulted in a dose-dependent full prevention

of neuronal death. Exogenous PtdCho also prevented apoptosis induced by farnesol, N-oleoylethanolamine, and sphingomyelinase, but did not prevent apoptosis induced after lowering the potassium concentration in the medium to non-depolarizing levels. Moreover, C2-ceramide inhibited labeling of [32P]PtdCho in cells incubated with [32P]orthophosphate, with the same potency to that causing apoptosis. Although cell viability did not decrease during the first few hours, inhibition of PtdCho synthesis was already patent after a 1 h exposure to C2-ceramide. Taken together, these results strongly suggest that inhibition of PtdCho synthesis constitutes one of the primary events by which C2-ceramide triggers apoptosis in cerebellar granule neurons.

154 C Camello; PJ Camello; JA Pariente; GM Salido. Effects of antioxidants on calcium signal induced by cholecystokinin in mouse pancreatic acinar cells. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 56 - 3, pp. 173 - 179. PAMPLONA(España): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 01/09/2000. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03179784?LI=true>. ISSN 1138-7548

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 0.958
Posición de publicación: 58

Fuente de citas: WOS
Citas: 7

Resultados relevantes: Digital imaging fluorescence microscopy was used to study the effect of two antioxidants, N-acetyl-cysteine (NAC) and glutathione, on the cytosolic free calcium concentration ([Ca2+]i) induced by cholecystokinin-octapeptide (CCK-8) of mouse pancreatic acinar cells. When acinar cells were preincubated with either NAC or glutathione, subsequent stimulation with CCK-8 in the presence of each antioxidant had no significant effect on the typical pattern of [Ca2+]i transient evoked by the gastrointestinal hormone. However, application of NAC to acinar cells pretreated for 60 min with the same antioxidant, strongly blocked the oscillatory pattern initiated by CCK-8, inhibiting both amplitude and frequency of calcium oscillations. By contrast, glutathione had no effect on the oscillatory pattern evoked by CCK-8. The present results allow us to speculate that during [Ca2+]i oscillation there is a production of oxidants that facilitate oscillations by enhancing release of calcium from internal stores.

155 JA Rosado; GM Salido; LJ Garcia. Activation of m3 muscarinic receptors induces rapid tyrosine phosphorylation of p125(FAK), p130(cas) and paxillin in rat pancreatic acini. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 377 - 1, pp. 85 - 94. New York(Estados Unidos de América): ACADEMIC PRESS INC, 01/05/2000. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0003986100917612>. ISSN 0003-9861

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 2.576
Revista dentro del 25%: No
Posición de publicación: 25

Fuente de citas: WOS
Citas: 17

Resultados relevantes: Tyrosine phosphorylation plays a key role in transmembrane and cytoplasmic signal transduction mechanisms stimulated by oncogenes, integrins, growth factors, neuropeptides, and bioactive lipids. Moreover, recent studies show that stimulation of odd-numbered muscarinic receptors increases the tyrosine phosphorylation of several proteins in different cellular types. The present study was aimed at examining whether activation of m3 muscarinic receptors in rat pancreatic acini evokes tyrosine phosphorylation of p125(FAK), and its substrates, p130(cas) and paxillin. Results show that stimulation of pancreatic acini with carbachol resulted in a rapid and transient increase in tyrosine phosphorylation of p125(FAK), p130(cas), and paxillin. Tyrosine phosphorylation of these proteins occurred in a time- and concentration-dependent manner. Simultaneous blockage of both PKC activation and increases in [Ca(2+)](i) partially decreased p125(FAK), p130(cas), and paxillin tyrosine phosphorylation stimulated by carbachol. Pretreatment of pancreatic acini with Clostridium botulinum C3 transferase, which specifically inactivates p21(rho), partially inhibited carbachol-induced p125(FAK), p130(cas), and paxillin tyrosine phosphorylation. In contrast, this treatment had no effect on amylase release stimulated

by carbachol. Cytochalasin D, which disrupts actin microfilaments network, completely inhibited carbachol stimulated tyrosine phosphorylation of these proteins without having significant effects in carbachol-stimulated amylase secretion. These results dissociate tyrosine phosphorylation of p125(FAK), p130(cas), and paxillin from amylase secretion after m3 muscarinic receptors occupation in rat pancreatic acini. Taken together, these data suggest that (a) activation of m3 muscarinic receptors in rat pancreatic acini increases tyrosine phosphorylation of p125(FAK) and its substrates, p130(cas) and paxillin by diacylglycerol-activated PKC- and calcium- dependent, and independent pathways, (b) these responses require activation of p21(rho) and an intact actin cytoskeleton, and (c) p125(FAK), p130(cas), and paxillin are unlikely related to secretion in rat pancreatic acinar cells.

156 JA Rosado; GM Salido; LJ Garcia. A role for phosphoinositides in tyrosine phosphorylation of p125 focal adhesion kinase in rat pancreatic acini. CELLULAR SIGNALLING. 12 - 3, pp. 173 - 182. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/03/2000. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656899000832>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 3.294
Revista dentro del 25%: No
Posición de publicación: 79
Fuente de citas: WOS
Citas: 8

157 AI Lajas; MJ Pozo; PJ Camello; GM Salido; J Singh; JA Pariente. Effect of dephostatin on intracellular free calcium concentration and amylase secretion in isolated rat pancreatic acinar cells. MOLECULAR AND CELLULAR BIOCHEMISTRY. 205 - 1-2, pp. 163 - 169. DORDRECHT(Holanda): KLUWER ACADEMIC PUBL, 01/02/2000. Disponible en Internet en: <http://link.springer.com/article/10.1023%2FA%3A1007086401390?LI=true#page-1>. ISSN 0300-8177

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 2.054
Posición de publicación: 78
Fuente de citas: WOS
Citas: 5

Resultados relevantes: This study investigates the effects of dephostatin, a new tyrosine phosphatase inhibitor, on intracellular free calcium concentration ([Ca2+]i) and amylase secretion in collagenase dispersed rat pancreatic acinar cells. Dephostatin evoked a sustained elevation in [Ca2+]i by mobilizing calcium from intracellular calcium stores in either the absence of extracellular calcium or the presence of lanthanium chloride (LaCl3). Pretreatment of acinar cells with dephostatin prevented cholecystokinin-octapeptide (CCK-8)-induced signal of [Ca2+]i and inhibited the oscillatory pattern initiated by aluminium fluoride (AlF- 4), whereas co-incubation with CCK-8 enhances the plateau phase of calcium response to CCK-8 without modifying the transient calcium spike. The effects of dephostatin on calcium mobilization were reversed by the presence of the sulfhydryl reducing agent, dithiothreitol. Stimulation of acinar cells with thapsigargin in the absence of extracellular Ca2+ resulted in a transient rise in [Ca2+]i . Application of dephostatin in the continuous presence of thapsigargin caused a small but sustained elevation in [Ca2+]i . These results suggest that dephostatin can mobilize Ca2+ from both a thapsigargin-sensitive and thapsigargin-insensitive intracellular stores in pancreatic acinar cells. In addition, dephostatin can stimulate the release of amylase from pancreatic acinar cells and moreover, reduce the secretory response to CCK-8. The results indicate that dephostatin can release calcium from intracellular calcium pools and consequently induces amylase secretion in pancreatic acinar cells. These effects are likely due to the oxidizing effects of this compound.

158 C Camello; JA Pariente; GM Salido; PJ Camello. Role of proton gradients and vacuolar H+-ATPases in the refilling of intracellular calcium stores in exocrine cells. CURRENT BIOLOGY. 10 - 3, pp. 161 - 164. LONDON(Reino Unido): CURRENT BIOLOGY LTD, 01/02/2000. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0960982200003134>. ISSN 0960-9822

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 8.393
Posición de publicación: 22
Fuente de citas: WOS
Citas: 24

Resultados relevantes: Numerous hormones and neurotransmitters activate cells by increasing cytosolic calcium concentration ([Ca(2+)](i)), a key regulatory factor for many cellular processes. A pivotal feature of these Ca(2+) signals is the release of Ca(2+) from intracellular stores, which is followed by activation of extracellular calcium influx, allowing refilling of the stores by SERCA pumps associated with the endoplasmic reticulum. Although the mechanisms of calcium release and calcium influx have been extensively studied, the biology of the Ca(2+) stores is poorly understood. The presence of heterogeneous calcium pools in cells has been previously reported [1] [2] [3]. Although recent technical improvements have confirmed this heterogeneity [4], knowledge about the mechanisms underlying Ca(2+) transport within the stores is very scarce and rather speculative. A recent study in polarized exocrine cells [5] has revealed the existence of Ca(2+) tunneling from basolateral stores to luminal pools, where Ca(2+) is initially released upon cell activation. Here, we present evidence that, during stimulation, Ca(2+) transported into basolateral stores by SERCA pumps is conveyed toward the luminal pools driven by proton gradients generated by vacuolar H(+)-ATPases. This finding unveils a new aspect of the machinery of Ca(2+) stores.

159 AI Lajas; MJ Pozo; PJ Camello; GM Salido; JA Pariente. Phenylarsine oxide evokes intracellular calcium increases and amylase secretion in isolated rat pancreatic acinar cells. CELLULAR SIGNALLING. 11 - 10, pp. 727 - 734. NEW YORK(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/10/1999. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0898656899000443>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 3.509
Posición de publicación: 30
Fuente de citas: WOS
Citas: 11

Resultados relevantes: The effects of the thiol reagent, phenylarsine oxide (PAO, 10(-5)-10(-3) M), a membrane-permeable trivalent arsenical compound that specifically complexes vicinal sulfhydryl groups of proteins to form stable ring structures, were studied by monitoring intracellular free calcium concentration ([Ca2+]i) and amylase secretion in collagenase dispersed rat pancreatic acinar cells. PAO increased [Ca2+]i by mobilizing calcium from intracellular stores, since this increase was observed in the absence of extracellular calcium. PAO also prevented the CCK-8-induced signal of [Ca2+]i and inhibited the oscillatory pattern initiated by aluminium fluoride (AlF-4). In addition to the effects of PAO on calcium mobilization, it caused a significant increase in amylase secretion and reduced the secretory response to either CCK-8 or AlF-4. The effects of PAO on both [Ca2+]i and amylase release were reversed by the sulfhydryl reducing agent, dithiothreitol (2 mM). Pretreatment of acinar cells with high concentration of ryanodine (50 microM) reduced the PAO-evoked calcium release. However, PAO was still able to release a small fraction of Ca2+ from acinar cells in which agonist-releasable Ca2+ pools had been previously depleted by thapsigargin (0.5 microM) and ryanodine receptors were blocked by 50 microM ryanodine. We conclude that, in pancreatic acinar cells, PAO mainly releases Ca2+ from the ryanodine-sensitive calcium pool and consequently induces amylase secretion. These effects are likely to be due to the oxidizing effects of this compound.

160 A Gonzalez; A Schmid; L Sternfeld; E Krause; GM Salido; I Schulz. Cholecystokinin-evoked Ca2+ waves in isolated mouse pancreatic acinar cells are modulated by activation of cytosolic phospholipase A(2), phospholipase D, and protein kinase C. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 261 - 3, pp. 726 - 733. SAN DIEGO(Estados Unidos de América): ACADEMIC PRESS INC, 01/08/1999. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006291X99911063>. ISSN 0006-291X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 3.161
Posición de publicación: 14
Fuente de citas: WOS
Citas: 26

Resultados relevantes: We employed confocal laser-scanning microscopy to monitor cholecystokinin (CCK)-evoked Ca2+ signals in fluo-3-loaded mouse pancreatic acinar cells. CCK-8-induced Ca2+ signals start at the luminal cell pole and subsequently spread toward the basolateral membrane. Ca2+ waves elicited by stimulation of high-affinity CCK receptors (h.a.CCK-R) with 20 pM CCK-8 spread with a slower rate than those induced by activation of low-affinity CCK receptors (l.a.CCK-R) with 10 nM CCK-8. However, the magnitude of the initial Ca2+ release was the same at both CCK-8 concentrations, suggesting that the secondary Ca2+ release from intracellular stores is modulated by activation of different intracellular pathways in response to low and high CCK-8 concentrations. Our experiments suggest that the propagation of Ca2+ waves is modulated by protein kinase C (PKC) and arachidonic acid (AA). The data indicate that h.a.CCK-R are linked to phospholipase C (PLC) and phospholipase A2 (PLA2) cascades, whereas l.a.CCK-R are coupled to PLC and phospholipase D (PLD) cascades. The products of PLA2 and PLD activation, AA and diacylglycerol (DAG), cause inhibition of Ca2+ wave propagation by yet unknown mechanisms.

161 JA Pariente; AI Lajas; MJ Pozo; PJ Camello; GM Salido. Oxidizing effects of vanadate on calcium mobilization and amylase release in rat pancreatic acinar cells. BIOCHEMICAL PHARMACOLOGY. 58 - 1, pp. 77 - 84. OXFORD(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/07/1999. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295299000507>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 2.755
Posición de publicación: 27
Fuente de citas: WOS
Citas: 17

Resultados relevantes: The effects of vanadate were examined by monitoring intracellular free calcium concentration ([Ca2+]i) and amylase secretion in collagenase-dispersed rat pancreatic acinar cells. Vanadate increased [Ca2+]i by mobilizing calcium from agonist-releasable intracellular calcium stores, since this increase was observed in the absence of extracellular calcium and vanadate failed to increase [Ca2+]i after treatment with thapsigargin in calcium-free medium. Moreover, pretreatment of acinar cells with vanadate prevented the cholecystokinin octapeptide (CCK-8)-induced signal of [Ca2+]i, whereas co-incubation with CCK-8 potentiated the plateau phase of calcium response to CCK-8 without modifying the transient calcium spike. The effects of vanadate on calcium mobilization were reversed by the presence of the sulfhydryl reducing agent dithiothreitol. Vanadate also activated the calcium influx, since an additional enhancement of calcium influx induced by thapsigargin-evoked intracellular store depletion was observed and vanadate reversed the inhibitory effect of lanthanum (an inhibitor of calcium entry) into acinar cells. In addition, vanadate evoked a concentration-dependent release of amylase from pancreatic acinar cells and moreover, reduced the secretory response to CCK-8. We conclude that, in pancreatic acinar cells, vanadate releases calcium from the agonist-releasable intracellular calcium pool and consequently induces amylase secretion. These effects are likely due to the oxidizing effects of this compound.

162 C Camello; JA Pariente; GM Salido; PJ Camello. Sequential activation of different Ca2+ entry pathways upon cholinergic stimulation in mouse pancreatic acinar cells. JOURNAL OF PHYSIOLOGY-LONDON. 516 - 2, pp. 399 - 408. London(Reino Unido): CAMBRIDGE UNIV PRESS, 01/04/1999. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2269261/>. ISSN 0022-3751

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 4.552
Revista dentro del 25%: Si
Posición de publicación: 5
Fuente de citas: WOS
Citas: 35

Resultados relevantes: We have studied capacitative calcium entry (CCE) under different experimental conditions in fura-2-loaded mouse pancreatic acinar cells by digital microscopic fluorimetry. CCE was investigated during [Ca2+]i decay after cell stimulation with a supramaximal concentration of ACh (10 μM) or during Ca2+ readmission in Ca2+-depleted cells (pretreated with thapsigargin or ACh). La3+ and Zn2+ (100 μM) inhibited CCE during Ca2+ readmission but had negligible effects during ACh decay. In contrast flufenamic acid (100 μM), an inhibitor of non-selective cation channels, genistein (10 μM), a broad-range tyrosine kinase inhibitor, and piceatannol (10 μM), an inhibitor specific for non-receptor Syk tyrosine kinase, inhibited CCE during ACh decay but not during Ca2+ reintroduction. Simultaneous detection of Mn2+ entry and [Ca2+]i measurement showed that, in the presence of extracellular calcium, application of 100 μM Mn2+ during ACh decay resulted in manganese influx without alteration of calcium influx, whilst when applied during Ca2+ readmission, Mn2+ entry was significantly smaller and induced a clear inhibition of CCE. Application of the specific protein kinase C inhibitor GF109293X (3 μM) reduced CCE in Ca2+-depleted cells, whereas the activator phorbol 12-myristate, 13-acetate (3 μM) increased Ca2+ entry. Based on these results we propose that cholinergic stimulation of mouse pancreatic acinar cells induces Ca2+ influx with an initial phase operated by a non-specific cation channel, sensitive to flufenamic acid and tyrosine kinase inhibitors but insensitive to lanthanum and divalent cations, followed by a moderately Ca2+-selective conductance inhibited by lanthanum and divalent cations.

163 JA Rosado; GM Salido; RT Jensen; LJ Garcia. Are tyrosine phosphorylation of p125(FAK) and paxillin or the small GTP binding protein, Rho, needed for CCK-stimulated pancreatic amylase secretion?. BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. 1404 - 3, pp. 412 - 426. AMSTERDAM(Holanda): ELSEVIER SCIENCE BV, 01/09/1998. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S016748899800072X>. ISSN 0167-4889

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 2.478
Revista dentro del 25%: No
Posición de publicación: 97
Fuente de citas: WOS
Citas: 8

Resultados relevantes: Studies of a possible role of tyrosine phosphorylation in the secretory process in rat pancreatic acinar cells provide conflicting conclusions. Recent studies show that tyrosine phosphorylation of the focal adhesion kinase, p125FAK and the cytoskeletal protein, paxillin, may mediate a number of cellular changes and this phosphorylation is dependent on the activation of the small GTP binding protein, p21Rho (Rho). In this work we have investigated the role of tyrosine phosphorylation of each of these proteins and of the activation of Rho in pancreatic enzyme secretion. Pretreatment with genistein, a tyrosine kinase inhibitor, decreased CCK-8-stimulated tyrosine phosphorylation of p125FAK and paxillin and CCK-8-stimulated amylase secretion by more than 60%, raising the possibility that tyrosine phosphorylation of these two proteins could be important in the ability of CCK-8 to stimulate amylase release. However, genistein did not alter the amylase release stimulated by TPA but inhibited TPA-stimulated p125FAK and paxillin tyrosine phosphorylation by 70%. Pretreatment with C3 transferase, which specifically inactivates Rho, causes a decrease in CCK-8-induced maximal amylase release by 33%. Moreover, C3 transferase pretreatment causes a 48% and a 38% decrease in the tyrosine phosphorylation

of p125FAK and paxillin by CCK-8, respectively. Pretreatment with different concentrations of cytochalasin D, an actin cytoskeleton assembly inhibitor, completely inhibited CCK-8-stimulated tyrosine phosphorylation of p125FAK and paxillin without having any effect on either the potency or efficacy of CCK-8 at stimulating amylase release. Furthermore, cytochalasin D completely inhibited TPA-stimulated tyrosine phosphorylation of both proteins without affecting TPA-stimulated amylase release. These results show that tyrosine phosphorylation of p125FAK and paxillin is not required for CCK-8 stimulation of enzyme secretion. However, our results suggest Rho is involved in the CCK-8 stimulation of amylase release by a parallel pathway to its involvement in the CCK-8-stimulated tyrosine phosphorylation of p125FAK and paxillin.

164 Ana Isabel Lajas; Maria José Pozo; Ginés Maria Salido; José Antonio Pariente. Effect of basic fibroblast growth factor on cholecystokinin-induced amylase release and intracellular calcium increase in male rat pancreatic acinar cells. BIOCHEMICAL PHARMACOLOGY. 55 - 6, pp. 903 - 908. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/03/1998. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006295297005467>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 2.719
Fuente de citas: WOS
Citas: 14

Resultados relevantes: Isolated rat pancreatic acinar cells were used to investigate the effect of basic fibroblast growth factor (bFGF) on both amylase secretion and intracellular free calcium concentration ([Ca2+]i) in response to the calcium-mobilizing secretagogue cholecystokinin-octapeptide (CCK-8). Our data show that bFGF inhibited CCK-8-induced amylase release in a concentration-dependent manner and decreased the CCK-8-induced rise in [Ca2+]i. This inhibitory effect of bFGF on both amylase secretion and [Ca2+]i increase in response to CCK-8 was reverted when acinar cells were pretreated with 100 microM tyrphostin A25, a tyrosine kinase inhibitor. Tyrphostin A25 also inhibited Ca2+ influx induced by CCK-8. These results show that bFGF inhibits CCK-8-induced pancreatic response by a tyrosine kinase-dependent mechanism. A role for tyrosine phosphorylation in capacitative Ca2+ entry is suggested.

165 Antonio Gonzalez; Jose Antonio Pariente; Gines Maria Salido; Pedro Javier Camello. Intracellular pH and calcium signalling in rat pancreatic acinar cells. PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY. 434 - 5, pp. 609 - 614. New York(Estados Unidos de América): SPRINGER VERLAG, 01/09/1997. Disponible en Internet en: <http://link.springer.com/article/10.1007%2Fs004240050443?LI=true>. ISSN 0031-6768

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 2.580
Fuente de citas: WOS
Citas: 14

Resultados relevantes: Intracellular free Ca2+ signals, which occur in many secretory cell types after the binding of some secretagogues to their membrane receptors, are due to Ca2+ mobilization from internal stores and Ca2+ influx from the extracellular space. There is also growing evidence for a modulatory role of intracellular pH in Ca2+ metabolism. In fact it has been proposed that Ca2+ stores in pancreatic acinar cells may be loaded by Ca2+/H+ exchange. The aim of this paper was to establish the effect of intracellular pH on Ca2+ signalling in pancreatic acinar cells. Application of the proton carrier nigericin impairs Ca2+ mobilization in response to cholecystokinin (CCK-8), and application of membrane-permeant bases or acids inhibits CCK-8-evoked intracellular Ca2+ oscillations. Both nigericin and a cell-permeant weak base release Ca2+ from internal stores. However, cytosolic acidification by removal of extracellular Na+ had no effect on the resting or stimulated cytosolic Ca2+ concentration. After depletion of Ca2+ stores by a maximal concentration of CCK-8, nigericin and ionomycin released a residual Ca2+ pool. Taken together, our results show that in pancreatic acinar cells Ca2+ signals require the existence of subcellular gradients of pH and indicate the presence of acidic pools of Ca2+.

166 JA Rosado; LJ Garcia; GM Salido. Ionic requirements in histamine-evoked potassium efflux in guinea pig pancreas. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 53 - 2, pp. 231 - 237. PAMPLONA(España): REV ESPANOLA FISIOLOGIA, 01/06/1997. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pubmed/9291535>. ISSN 0034-9402

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 0.067
Revista dentro del 25%: No
Posición de publicación: 65

Fuente de citas: WOS
Citas: 0

Resultados relevantes: Guinea pig pancreatic segments were superfused during 10 min with physiological saline solutions containing 10(-6) M acetylcholine (ACh) or histamine (10(-3)-10(-6) M) and the potassium concentration in the effluent [K+]o) was measured by flame photometry. Histamine evoked a transient increase in [K/]o. The removal of calcium from the superfusing solution and addition of 10(-4) M EGTA caused a significant reduction in the histamine-evoked potassium outflow. Replacement of chloride (Cl-) in the physiological salt solution by nitrate (NO3-) caused a significant reduction in the histamine-evoked potassium release. However, when Cl- was replaced by bromide (Br-) the response to histamine was unaffected. Pre-treatment of pancreatic segments with furosemide (10(-4 M) or ouabain (10(-3) M) caused a marked reduction in the histamine-induced potassium release. The results suggest that ionic requirements in histamine-evoked potassium release are the same as those in acetylcholine-evoked potassium efflux.

167 Jay-Paul Singh; Jose Antonio Pariente; Gines Maria Salido. The physiological role of histamine in the exocrine pancreas. INFLAMMATION RESEARCH. 46 - 5, pp. 159 - 165. Basel(Suiza): BIRKHAUSER VERLAG AG, 01/05/1997. Disponible en Internet en: <http://europepmc.org/abstract/MED/9197985>. ISSN 1023-3830

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)
Categoría: Science Edition - IMMUNOLOGY
Índice de impacto: 1.773

Fuente de citas: WOS
Citas: 9

Resultados relevantes: In addition to the autonomic nervous system and gut hormones, the mast cell mediator histamine has also been associated with exocrine pancreatic secretion. This review is concerned with the distribution and the physiological role of histamine in the control of pancreatic juice secretion. Histamine is distributed widely around blood vessels and acinar tissues in the pancreas and it is released in pancreatic juice during secretagogue stimulation. Histamine has a marked secretagogue effect in the exocrine pancreas of several animal species but in many cases the secretory effect is gender-related. The paracrine hormone exerts its secretory response via activation of H1 and H2 receptors on pancreatic acinar cells to mobilize potassium ions (K+) and cellular calcium (Ca2+) and through elevation of endogenous adenosine 3',5' cyclic monophosphate (cyclic AMP) levels, respectively. A physiological role for H3 receptors has also been associated with exocrine pancreatic secretion. H3 receptors are located presynaptically on parasympathetic nerve terminals to control the release of acetylcholine via restriction of Ca2+ access into nerve terminal through the N-type Ca2+ channel. Taken together, the results presented in this review strongly support histamine as a potential modulator of exocrine pancreatic function.

168 Lubna Juma; Jay-Paul Singh; David Pallot; Ginés Maria Salido; Ernest Adeghate. Interactions of islet hormones with acetylcholine in the isolated rat pancreas. PEPTIDES. 18 - 9, pp. 1415 - 1422. New York(Estados Unidos de América): ELSEVIER SCIENCE INC, 01/01/1997. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0196978197002027>. ISSN 0196-9781

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Índice de impacto: 1.738

Fuente de citas: WOS **Citas:** 13

Resultados relevantes: The results indicate that both tyrosine kinase and cellular Ca2+ seem to be the intracellular mediators associated with the enhanced secretory responses obtained with a combination of the islet hormones with ACh

169 Soledad Alcon; Pedro Camello; Gines Maria Salido; C Scarpignato; Maria Jose Pozo. Neurotransmitters involved in the mechanical response of guinea pig gallbladder to electrical field stimulation. BIOGENIC AMINES. 13 - 4, pp. 305 - 318. Zeis(Holanda): VSP BV, 01/01/1997. Disponible en Internet en: <http://cat.inist.fr/?aModele=afficheN&cpsidt=2824215>. ISSN 0168-8561

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Índice de impacto: 0.466

Fuente de citas: WOS **Citas:** 2

Resultados relevantes: The type of neurotransmitters released from neural plexuses in the gallbladder was investigated using transmural electrical field stimulation (EFS). EFS produced a frequency and intensity-dependent contraction whose main component was neurogenic since treatment with tetrodotoxin (TTX) reduced the response to 18.92 ± 6.06 % compared to the response in the absence of TTX. In order to elucidate the mechanism involved in the EFS-induced contraction we studied the effects of several neurotransmitter antagonists on this response. The presence of atropine (10-9 M - 10-6 M) reduced contractions in a concentration-dependent fashion, but atropine was unable to abolish the EFS-induced contractions. Treatment with guanethidine also decreased the response to EFS (28.48 ± 5.40 % compared to control) whereas the b-blocking agent propranolol (10-6 M) induced increases in the measured response. Loxiglumide was able to reduce the contractile response in a concentration-dependent manner and addition of increasing concentrations L-NAME, to the bath resulted in a enhancement of the EFS-response. The data clearly demonstrated that EFS induces a contractile gallbladder response which is the result of stimulation of cholinergic, adrenergic, CCK-ergic and nitrergic fibers.

170 JA Rosado; J Singh; GM Salido; LJ Garcia. Acetylcholine-evoked potassium transport in the isolated guinea-pig pancreas. EXPERIMENTAL PHYSIOLOGY. 82 - 1, pp. 149 - 159. MALDEN(Reino Unido): CAMBRIDGE UNIV PRESS, 01/01/1997. Disponible en Internet en: <http://ep.physoc.org/content/82/1/149.long>. ISSN 0958-0670

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHYSIOLOGY

Índice de impacto: 1.526 **Revista dentro del 25%:** No

Posición de publicación: 23

Fuente de citas: WOS **Citas:** 2

Resultados relevantes: In this study, K+ concentration was measured in effluent samples from superfused guinea-pig pancreatic pieces in control conditions and during stimulation with ACh, employing the technique of flame photometry. ACh (10(-7)-10(-5) M) evoked a dose-dependent and sustained increase in K+ concentration in the effluent (K+ release). The removal of Ca2+ from the superfusing medium and the addition of 10(-4) M EGTA caused a significant (P < 0.05) reduction in the ACh-evoked K+ efflux. Replacement of extracellular Cl- in the superfusing physiological salt solution with NO3- abolished the ACh-induced K+ efflux. In contrast, when Cl- was replaced with Br-, ACh still evoked marked K+ release. Pretreatment of pancreatic segments with the loop diuretic furosemide (10(-4) M) resulted in an inhibition of K+ efflux elicited by ACh. Stimulation of pancreatic segments with the Na(+)-K(+)-ATPase inhibitor ouabain (10(-3) M) caused a large efflux of K+. In the continuous presence

of ouabain, ACh application elicited no further change in the K+ release. The results indicate that ACh-evoked K+ release from guinea-pig pancreatic segments is sensitive to ouabain, Cl-, furosemide and extracellular Ca2+ and that only the basal efflux is augmented by ouabain. The findings provide further evidence that a diuretic-sensitive coupled Na(+)-K(+)-Cl- cotransport system operates in the guinea-pig pancreas, as it does in other similar transporting epithelia, to bring about K+ mobilization.

171 Jose Antonio Tapia; Antonio Gonzalez; Gines Maria Salido; Luis Javier Garcia. Trypsinogen secretion from the isolated guinea-pig pancreas in response to secretagogues. BIOGENIC AMINES. 13 - 5, pp. 477 - 490. Zeist(Holanda): VSP BV, 01/01/1997. Disponible en Internet en: <http://www.refdoc.fr/Detailnotice?idarticle=15005734>. ISSN 0168-8561

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Índice de impacto: 0.466
Fuente de citas: WOS
Citas: 0

Resultados relevantes: A study has been made of secretagogues inducing release of trypsinogen from superfused guinea pig pancreatic segments by using an on-line spectrophotometric system. Cholecystokinin octapeptide (CCK-8; 3.16x10-11-10-7 M), acetylcholine (ACh; 10-7-3.16x10-5 M), vasoactive intestinal polypeptide (VIP; 10-9-10-6 M), secretin (10-9-10-6 M) and histamine (10-7-10-3 M) individually evoked significant increases in trypsinogen release. A potentiating effect occurs when CCK-8 is employed in combination with secretin but not with histamine. The activation of protein kinase C (PKC) by the phorbol ester 12-O-tetradecanoylphorbol-13-acetate (TPA) also increased trypsinogen secretion. In conclusion this study describes the usefulness of an on-line automated method to measure trypsin release in respose to several pancreatic secretagogues which are acting through different stimulus-secretion coupling pathways.

172 Antonio Gonzalez; Pedro Javier Camello; Jose Antonio Pariente; Ginés Maria Salido. Free cytosolic calcium levels modify intracellular pH in rat pancreatic acini. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 230 - 3, pp. 652 - 656. San Diego(Estados Unidos de América): ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 01/01/1997. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S0006291X9696026X>. ISSN 0006-291X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - BIOPHYSICS
Índice de impacto: 2.671
Fuente de citas: WOS
Citas: 26

Resultados relevantes: We have used BCECF- or Fura-2-loaded rat pancreatic acinar cells to investigate the relationship between Ca2+ mobilization and intracellular pH (pHi). Ca2+-mobilizing agonists CCK-8 and ACh induced a transient acidification totally dependent on release of Ca2+ from internal stores. Employment of different physiological tools including ionomycin and thapsigargin to increase the cytosolic Ca2+ concentration and capacitative calcium influx also induced cellular acidification. Application of 1mM LaCl3 reduced the CCK-8-evoked acidification. These data indicate that the mobilization of intracellular Ca2+ stores by CCK-8 decreases cellular pH by Ca2+/H+ exchanger.

173 Gines Maria Salido; Jay-paul Singh; Jose Antonio Pariente; Pedro Javier Camello. Sex-related difference in histaminergic control of exocrine pancreatic secretion in the guinea-pig. BIOGENIC AMINES. 13 - 5, pp. 461 - 475. zeist(Holanda): VSP BV, 01/01/1997. Disponible en Internet en: <http://www.refdoc.fr/Detailnotice?idarticle=15005732>. ISSN 0168-8561

Tipo de producción: Artículo
Tipo de soporte: Revista
Fuente de impacto: WOS (JCR)

Categoría: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Índice de impacto: 0.466

Fuente de citas: WOS **Citas:** 0

Resultados relevantes: These study indicate sex-related difference in histaminergic control of secretory parameters in the isolated guinea-pig pancreas.

174 Gines Maria Salido; Jose Antonio Pariente; L Jennings; KA Sarkey; JS Davison; Jay-paul Singh. Effects of histamine H-3 receptors on nerve-mediated protein secretion and H-3-choline release in the isolated guinea-pig pancreas. BIOGENIC AMINES. 13 - 5, pp. 425 - 439. Zeist(Holanda): VSP BV, 01/01/1997. Disponible en Internet en: <http://cat.inist.fr/?aModele=afficheN&cpsidt=2834795>. ISSN 0168-8561

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 1 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Índice de impacto: 0.466

Fuente de citas: WOS **Citas:** 1

Resultados relevantes: This study investigates the interaction between histamine H3 receptors and nerve-mediated protein secretion and [3H] choline release in the isolated guinea-pig pancreas. Electrical field stimulation (EFS; frequencies 5-20 Hz; amplitude 50 V; pulse width 1 msec.) of pancreatic segments resulted in large and significant increases in total protein output compared to basal. Either histamine (His),a-methylhistamine (a-MHis) or tetrodotoxin (TTX) had no significant effect on basal protein output but they markedly inhibited the EFS- evoked protein output. The inhibitory effect of His on EFS-evoked secretory response was reversed by the H3 receptor antagonist, thioperamide (TPD) which on its own had no effect on basal protein secretion. Similarly, either EFS or elevated KCl (50 mM) can evoke marked and reversible release of tritium from [3H] choline chloride loaded pancreatic segments compared to basal value. The EFS-evoked tritium release was inhibited by either TTX, a-MHis or His. The KCl-induced response was also attenuated by a-MHis. The inhibitory effect of His on EFS-elevated tritium release was reversed by thioperamide. Histamine immunoreactively was localized to a population of cells, typically found around blood vessels, with similar density and distribution to mast cells identified by alcian blue staining. The results indicate a marked interaction between histamine H3 receptors and nerve-mediated secretory response in the exocrine guinea-pig pancreas. It is postulated that histamine may activate H3 receptors on presynaptic nerve terminal to regulate the release of acetylcholine which in turn stimulates exocrine pancreatic secretion.

175 S Alcon; JA Rosado; LJ Garcia; JA Pariente; GM Salido; MJ Pozo. Secretin potentiates guinea pig pancreatic response to cholecystokinin by a cholinergic mechanism. CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. 74 - 12, pp. 1342 - 1350. OTTAWA(Canadá): NATL RESEARCH COUNCIL CANADA, 01/12/1996. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pubmed/9047045>. ISSN 0008-4212

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 5 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHYSIOLOGY

Índice de impacto: 1.275 **Revista dentro del 25%:** No

Posición de publicación: 28

Fuente de citas: WOS **Citas:** 4

Resultados relevantes: The effects of secretin and cholecystokinin on exocrine pancreas secretion in the guinea pig were investigated. The putative potentiating effect of these two hormones was studied in various settings to elucidate the effect of cholinergic stimuli in such interaction. In anesthetized guinea pig, intravenous infusion of cholecystokinin (0.75 pmol.kg-1.min-1) or secretin (0.5 pmol.kg-1.min-1) resulted in a marked and rapid increase of pancreatic juice flow and protein output. When cholecystokinin was combined with secretin,

there was a significant increase in pancreatic, compared with cholecystokinin alone. This increase in pancreatic juice secretion and protein output was significantly suppressed by the prior administration of 100 micrograms/kg atropine. Similar results were obtained when trypsinogen release from pancreatic segments was measured in response to cholecystokinin (32 nM-32 pM) and (or) secretin (1 microM-32 nM). When we assayed the hormonal interaction on amylase release from dispersed pancreatic acini, we found that secretin (32 nM) failed to influence the secretory response to cholecystokinin (1 pM-10 nM). Thus we conclude that a combination of cholecystokinin and secretin resulted in a marked potentiation of the secretory responses in the exocrine guinea pig pancreas by a mechanism that involves cholinergic interactions present at the tissue level but not at the dispersed secretory cell level.

176 LJ Jennings; Gines Maria Salido; Jose Antonio Pariente; JS Davison; Jay-Paul Singh; KA Sharkey. Control of exocrine secretion in the guinea-pig pancreas by histamine H-3 receptors. CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. 74 - 6, pp. 744 - 752. OTTAWA(Canadá): NATL RESEARCH COUNCIL CANADA, 01/06/1996. Disponible en Internet en: <http://www.nrcresearchpress.com/doi/abs/10.1139/y96-084?journalCode=cjpp#.UJz27IeCmmw>. ISSN 0008-4212

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 1.275
Fuente de citas: WOS
Citas: 6

Resultados relevantes: This study demonstrates that stimulation of the histamine H3 receptor in the pancreas results in a decreased fluid and enzyme release by inhibition of acetylcholine release from intrinsic pancreatic nerves.

177 JA Rosado; JA Tapia; LJ Garcia; GM Salido. Histamine-evoked potassium release in the mouse and guinea pig pancreas. PANCREAS. 12 - 4, pp. 396 - 400. PHILADELPHIA(Estados Unidos de América): LIPPINCOTT-RAVEN PUBL, 01/05/1996. Disponible en Internet en: <http://www.ncbi.nlm.nih.gov/pubmed/8740408>. ISSN 0885-3177

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 1.138
Revista dentro del 25%: No
Posición de publicación: 27
Fuente de citas: WOS
Citas: 4

Resultados relevantes: An investigation was made of the effects of histamine on the K+ concentration in the effluent in superfused guinea pig and mouse pancreatic segments. The effect of acetylcholine (ACh) was examined for comparison. Histamine evoked a dose-dependent and transient increase in the K+ concentration in the effluent (K+ release) but is less potent compared to the cholinergic agonist, ACh. At the same doses histamine and ACh evoke a much larger K+ release from mouse superfused pancreatic segments followed in the poststimulus period by a reuptake of K+. However, this reuptake of K+ was not observed in guinea pig superfused pancreatic segments. On the other hand, the cholinergic antagonist, atropine, completely abolished the K+ release in response to ACh and histamine from mouse and guinea pig pancreatic segments. Our results show the involvement of histamine in the control of K+ release in pancreatic tissue, with significant differences in the observed responses between species.

178 Denham Wisdom; Gines Maria Salido; Lisa Baldwin; Jai-Paul Singh. The role of magnesium in regulating CCK-8-evoked secretory responses in the exocrine rat pancreas. MOLECULAR AND CELLULAR BIOCHEMISTRY. 154 - 2, pp. 123 - 132. DORDRECHT(Holanda): KLUWER ACADEMIC PUBL, 01/01/1996. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF00226780?LI=true>. ISSN 0300-8177

Tipo de producción: Artículo
Tipo de soporte: Revista

Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Índice de impacto: 1.345

Fuente de citas: WOS **Citas:** 7

Resultados relevantes: The results indicate that Mg2+ can regulate CCK-8-evoked secretory responses in the exocrine pancreas possibly via Ca2+ mobilization. Moreover, the movement of Mg2+ in pancreatic acinar cells is dependent upon extracellular Na+.

179 Ana Isabel Lajas; Maria Jose Pozo; Ginés Maria Salido; Jai-paul Singh; Jose Antonio Pariente. Secretory activity and trophic effects of epidermal growth factor in the rat pancreas. ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY. 104 - 3, pp. 293 - 299. Lisse(Holanda): INFORMA HEALTHCARE, 01/01/1996. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.1076/apab.104.3.293.12909?journalCode=arp>. ISSN 1381-3455

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR)

Índice de impacto: 0.113

Fuente de citas: WOS **Citas:** 7

Resultados relevantes: The present study fails to observe a stimulatory role of EGF on pancreatic growth in rats, but may participate in the regulation of pancreatic exocrine function in vivo.

180 Antonio Gonzalez; Pedro Javier Camello; Jose Antonio Pariente; Gines Maria Salido. Stimulus-secretion pathway for histamine in the exocrine pancreas. BIOGENIC AMINES. 12 - 4, pp. 343 - 352. Zeist(Holanda): VSP BV, 01/01/1996. Disponible en Internet en: <http://cat.inist.fr/?aModele=afficheN&cpsidt=3207938>. ISSN 0168-8561

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 4 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Índice de impacto: 0.466

Fuente de citas: WOS **Citas:** 3

Resultados relevantes: These results appeal for the involvement of histamine in the control of amylase secretion and cyclic AMP system in guinea-pig pancreatic acinar cells.

181 LJ JENNINGS; Gines Maria SALIDO; Maria Jose POZO; JS DAVISON; KA SHARKEY; RW LEA; Jai-paul SINGH. THE SOURCE AND ACTION OF HISTAMINE IN THE ISOLATED GUINEA-PIG GALLBLADDER. INFLAMMATION RESEARCH. 44 - 10, pp. 447 - 453. Basel(Suiza): BIRKHAUSER VERLAG AG, 01/10/1995. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF01757702?LI=true>. ISSN 1023-3830

Tipo de producción: Artículo **Tipo de soporte:** Revista

Posición de firma: 2 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - IMMUNOLOGY

Índice de impacto: 1.773

Fuente de citas: WOS **Citas:** 11

Resultados relevantes: The results indicate that histamine is distributed in the guinea-pig gallbladder and it can regulate contractile activity via activation of H1 and H2 but not H3 receptors.

182 Maria Jose POZO; MJ ESTEVEZ; Soledad ALCON; Pedro Javier CAMELLO; Jose Antonio PARIENTE; Gines Maria SALIDO. CHOLINERGIC DEPENDENCE OF PANCREATIC RESPONSE TO CHOLECYSTOKININ IN RATS AND GUINEA-PIGS. GENERAL PHARMACOLOGY. 26 - 4, pp. 843 - 850. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/07/1995. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/030636239400249M>. ISSN 0306-3623

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 6
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 1.056
Fuente de citas: WOS
Citas: 6

Resultados relevantes: This study supports the concept that the influence of cholinergic system in pancreatic response to cholecystokinin shows interspecific differences.

183 Soledad ALCON; Maria Jose POZO; Gines Maria SALIDO; Jose Antonio PARIENTE. HISTAMINERGIC MODULATION OF HORMONAL-CONTROL IN THE EXOCRINE GUINEA-PIG PANCREAS. INFLAMMATION RESEARCH. 44 - 5, pp. 207 - 211. Basel(Suiza): BIRKHAUSER VERLAG AG, 01/05/1995. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF01782260?LI=true>. ISSN 1023-3830

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - IMMUNOLOGY
Índice de impacto: 1.773
Fuente de citas: WOS
Citas: 3

Resultados relevantes: Our results indicate that histamine may play an important physiological role in modulating the hormonal control of exocrine guinea pig pancreas.

184 Antonio Gonzalez; Jose Antonio Pariente; Gines Maria SALIDO; Jai-paul SINGH; Denham Wisdom. Reciprocal changes in intracellular and extracellular magnesium in rat pancreatic acinar cells in response to different secretagogues. Magnesium Research. pp. 215 - 222. (Francia): Society for the Development of Research on Magnesium (SDRM), 01/01/1995. ISSN 0953-1424

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

185 Ana Isabel LAJAS; Jose Antonio PARIENTE; Ginés Maria SALIDO. HISTAMINE AND THE CAMP PATHWAY IN THE GUINEA-PIG PANCREAS. CELLULAR SIGNALLING. 7 - 1, pp. 57 - 60. New York(Estados Unidos de América): PERGAMON-ELSEVIER SCIENCE LTD, 01/01/1995. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/089865689400058J>. ISSN 0898-6568

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - CELL BIOLOGY
Índice de impacto: 2.174
Fuente de citas: WOS
Citas: 7

Resultados relevantes: Our findings suggest that in guinea-pig pancreatic lobules, VIP, forskolin and IBMX, agents involved in the cyclic adenosine monophosphate (cAMP) pathway, potentiate histamine stimulated amylase release

186 Denham WISDOM; Pedro Javier CAMELLO; Gines Maria SALIDO; Jai-paul SINGH. INTERACTION BETWEEN SECRETIN AND NERVE-MEDIATED AMYLASE SECRETION IN THE ISOLATED EXOCRINE RAT PANCREAS. EXPERIMENTAL PHYSIOLOGY. 79 - 5, pp. 851 - 863. New York(Estados Unidos de América): CAMBRIDGE UNIV PRESS, 01/09/1994. Disponible en Internet en: <http://ep.physoc.org/content/79/5/851.long>. ISSN 0958-0670

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: PHYSIOLOGY
Índice de impacto: 1.526

Resultados relevantes: The results indicate that secretin may control nerve-mediated and ACh-evoked secretory responses in the rat pancreas, possibly by an interaction between cellular Ca2+ and Mg2+.

187 Pedro Javier CAMELLO; Denham WISDOM; Jai-paul SINGH; Gines Maria SALIDO. HORMONAL-CONTROL OF EXOCRINE PANCREATIC-SECRETION IN THE ISOLATED INTACT RAT PANCREAS. REVISTA ESPANOLA DE FISIOLOGIA. 50 - 1, pp. 35 - 40. Madrid, Comunidad de Madrid(España): REV ESPANOLA FISIOLOGIA, 01/03/1994. ISSN 0034-9402

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 1

Resultados relevantes: The results indicate that optimal concentrations of either CCK-8 or secretin can display marked secretagogue effects on the exocrine pancreas but when administered simultaneously they failed to elicit either an additive response or a potentiation in pancreatic juice secretion.

188 Isabel Maria PEDRERA; Ana Beatriz RODRIGUEZ; Gines Maria SALIDO; Carmen BARRIGA. PHAGOCYTIC PROCESS OF HEAD KIDNEY GRANULOCYTES OF TENCH (TINCA-TINCA, L). FISH \& SHELLFISH IMMUNOLOGY. 3 - 6, pp. 411 - 421. London(Reino Unido): ACADEMIC PRESS LTD, 01/11/1993. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/S1050464883710417>. ISSN 1050-4648

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - IMMUNOLOGY
Índice de impacto: 1.781
Fuente de citas: WOS
Citas: 11

189 Pedro Javier CAMELLO; Gines Maria SALIDO. INHIBITORY INTERACTIONS BETWEEN STIMULUS-SECRETION PATHWAYS IN THE EXOCRINE RAT PANCREAS. BIOCHEMICAL PHARMACOLOGY. 46 - 6, pp. 1005 - 1009. Oxford, Inner London(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/09/1993. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/000629529390664I>. ISSN 0006-2952

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 2,442
Fuente de citas: WOS
Citas: 5

Resultados relevantes: the secretagogues acting via adenosine cyclic monophosphate (cAMP) and those acting via calcium-phosphoinositides can potentiate one another. On the other hand, protein kinase C (PK-C) modulates receptor-induced responses in exocrine pancreatic cells and other cell types. Recording total protein

output, monitored on-line at 280 nm, from superfused rat pancreatic segments, we demonstrate that secretin (a cAMP-acting hormone) reduces the efficacy of the calcium-mediated secretagogue cholecystokinin-octapeptide (CCK-8). Likewise, the PK-C activator 12,O,tetradecanoyl phorbol 13 acetate (TPA) reduces both the efficacy of secretin and the potency of cholecystokinin. Thus, the hypothesis of potentiation between different stimulus-secretion coupling mechanisms must be revised, and receptor-activated responses in the exocrine pancreas must be considered a complex model with multiple inhibitory and stimulatory interactions.

190 Pedro Javier CAMELLO; Denham WISDOM; Jai-paul SINGH; LP FRANCIS; Gines Maria SALIDO. EFFECT OF PHORBOL ESTER ON VAGAL-STIMULATION AND ACETYLCHOLINE-EVOKED EXOCRINE PANCREATIC-SECRETION AND CYTOSOLIC-FREE CALCIUM IN THE RAT. ARCHIVES INTERNATIONALES DE PHYSIOLOGIE DE BIOCHIMIE ET DE BIOPHYSIQUE. 101 - 2, pp. 133 - 139. Liege(Bélgica): SWETS ZEITLINGER PUBLISHERS, 01/03/1993. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/13813459309008882>. ISSN 0003-9799

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 3

Resultados relevantes: This study indicate that TPA can decrease the secretory responses evoked by E.S. of the vagus nerves in the anaesthetized rat. This attenuation is not associated with either protein kinase C inhibition or the mobilization of the second messenger Ca2+ but possibly through activation of protein kinase C by TPA.

191 Denham WISDOM; Jai-paul SINGH; Pedro Javier CAMELLO; Jose Antonio PARIENTE; Gines Maria SALIDO. EFFECT OF SECRETIN ON VAGAL STIMULATION-EVOKED EXOCRINE PANCREATIC-SECRETION IN THE RAT. REVISTA ESPANOLA DE FISIOLOGIA. 49 - 1, pp. 31 - 35. Madrid, Comunidad de Madrid(España): REV ESPANOLA FISIOLOGIA, 01/03/1993. ISSN 0034-9402

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 5
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 3

Resultados relevantes: The effect of secretin on nerve-mediated pancreatic juice secretion in the anaesthetized rat has been studied. Vagotomy caused a significant reduction in the rate of pancreatic juice flow, total protein output and amylase secretion being compared to control values prior to vagotomy. Both secretin (intravenous infusion 10(-10) mol/kg body weight/h) and electrical stimulation of the vagus nerves (4 V, 2 ms, 20 Hz) caused marked increases in flow, total protein output and amylase output. Pretreatment of rats with atropine (0.1 mg/kg body weight) abolished the electrical stimulation-evoked secretion. However, simultaneous intravenous infusion of secretin and electrical stimulation did not yield either a clear additive response or a potentiation of secretory responses.

192 Antonio Gazquez; F Tortuero; Gines Maria SALIDO; E Fernandez; R Pascual. Magnesium silicate and histological changes associate to tibial dyschondroplasia in chickens. Archivos de Zootecnica. 42, pp. 379 - 384. Cordoba, Andalucía(España): Universidad de Córdoba y la Asociación Iberoamericana de Zootecnia, 01/03/1993. Disponible en Internet en: <http://www.erevistas.csic.es/ficha_articulo.php?url=oai:www.uco.es/organiza/servicios/publica/az/az.htm:7861&oai_iden=oai_revista61>. ISSN 0004-0592

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

193 Jose Manuel Fuentes; R Pascual; Gines Maria SALIDO; German Soler; Juan Antonio Madrid. Effects of phorbol esters and secretin on acetylcholine-evoked exocrine pancreatic secretion in the anaesthetized rat. Pharmacology Communications. pp. 237 - 241. (Estados Unidos de América): Taylor & Francis, 01/01/1993. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/13813459409003936?journalCode=arp>. ISSN 1744-4160

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3

Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Resultados relevantes: Our results suggest that the diurnal rhythms of cytosolic enzymes of the urea cycle are not only dependent on the light-dark cycle, but also on the synchronizing and masking effect of food intake.

194 Antonio Gonzalez; Maria Jose Pozo; Pedro Javier Camello; Gines Maria SALIDO; Jose Antonio Pariente. Effects of phorbol esters and secretin on acetylcholine-evoked exocrine pancreatic secretion in the anaesthetized rat. Pharmacology Communications. pp. 263 - 273. (Estados Unidos de América): 01/01/1993.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

195 Gines Maria SALIDO; Jaipaul SINGH; Caroline RENDER; Pedro Javier CAMELLO. SECRETAGOGUE-EVOKED TIME-COURSE CHANGES ON PANCREATIC-JUICE SECRETION IN THE ANESTHETIZED RAT. GENERAL PHARMACOLOGY. 23 - 1, pp. 33 - 38. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/01/1992. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/030636239290043J>. ISSN 0306-3623

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 1.056
Fuente de citas: WOS
Citas: 0

Resultados relevantes: The present study further implicates the involvement of protein kinase C in the modulation of CCK-8 and secretin-induced pancreatic juice secretion in the anaesthetized rat.

196 MJ TUNON; P GONZALEZ; P LOPEZ; Gines Maria SALIDO; Jose Antonio MADRID. CIRCADIAN-RHYTHMS IN GLUTATHIONE AND GLUTATHIONE-S-TRANSFERASE ACTIVITY OF RAT-LIVER. ARCHIVES INTERNATIONALES DE PHYSIOLOGIE DE BIOCHIMIE ET DE BIOPHYSIQUE. 100 - 1, pp. 83 - 87. Liege(Bélgica): SWETS ZEITLINGER PUBLISHERS, 01/01/1992. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/13813459209035264>. ISSN 0003-9799

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 21

Resultados relevantes: The experiments were conduced to examine the existence of circadian rhythms in glutathione concentration and glutathione S-transferase activity in the liver of the rat. In animals synchronized to a 12:12 h light-dark cycle and fasted at 6 different time points to allow exactly 24 h of fasting, both, glutathione concentration and glutathione S-transferase activity show diurnal variation with a maximum during the light period and a minimum at night. On the other hand the hepatic protein level was maximal during the light period and decreased to its lowest level during the dark period. The implications of such oscillations in the circadian rhuthms of toxicological or therapeutical effects of many xenobiotic agents are clear.

197 Jaypaul SINGH; Roger LENNARD; Gines Maria SALIDO; Denham WISDOM; Caroline RENDER; Maria Jose POZO; Jose Antonio PARIENTE; Pedro Javier CAMELLO. INTERACTION BETWEEN SECRETIN AND CHOLECYSTOKININ-OCTAPEPTIDE IN THE EXOCRINE RAT PANCREAS INVIVO AND INVITRO. EXPERIMENTAL PHYSIOLOGY. 77 - 1, pp. 191 - 204. New York(Estados Unidos de América): CAMBRIDGE UNIV PRESS, 01/01/1992. Disponible en Internet en: <http://ep.physoc.org/content/77/1/191.long>. ISSN 0958-0670

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de impacto: WOS (JCR) **Categoría:** Science Edition - PHYSIOLOGY
Índice de impacto: 1.526

Fuente de citas: WOS **Citas:** 35

Resultados relevantes: The results indicate that both Ca2+ and Mg2+ mobilization may be associated with the interaction between CCK8 and secretin in the rat pancreas.

198 Jose Antonio Pariente; Jaypaul Singh; Gines Maria Salido; L Jennings; J Davidson. Activation of histamine receptors is associated with amylase secretion and calcium mobilization in guinea-pig pancreatic acinar cells.Cellular physiology and biochemistry. pp. 111 - 120. (Suiza): Wiley-Blackwell, 01/09/1991. ISSN 1015-8987

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

199 Pedro Javier CAMELLO; Maria Jose POZO; Gines Maria SALIDO; Juan Antonio MADRID. Ultradian rhytms in canine gallbladder bile composition. JOURNAL OF INTERDISCIPLINARY CYCLE RESEARCH. 22 - 3, pp. 281 - 291. (Reino Unido): SWETS ZEITLINGER PUBLISHERS, 01/09/1991. Disponible en Internet en: <http://www.tandfonline.com/doi/abs/10.1080/09291019109360112>. ISSN 0022-1945

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 3 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de citas: WOS **Citas:** 3

Resultados relevantes: This study suggest that periodic food intake plays a role in the circadian rhythms of gallbladder bile composition and reveal that the interdigestive ultradian rhythms shows a frequency similar to those MMC.

200 P Matas; Gines Maria SALIDO. Nutrición y fertilidad en el varón.Nutrición clínica. Dietética hospitalaria.11, pp. 112 - 116. Madrid(España): Grutesa Grupo Tecnico Editorial, 01/01/1991. ISSN 0211-6057

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 2 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

201 A CHASO; R PASCUAL; Juan Antonio MADRID; Gines Maria SALIDO. BIOAVAILABILITY OF FLUORIDE FROM DIETARY SEPIOLITE IN THE LAMB. ANNALES DE RECHERCHES VETERINAIRES. 22 - 1, pp. 71 - 75. (Francia): EDITIONS SCIENTIFIQUES ELSEVIER, 01/01/1991. Disponible en Internet en: <http://pubget.com/paper/1828334/Bioavailability_of_fluoride_from_dietary_sepiolite_in_the_lamb>. ISSN 0003-4193

Tipo de producción: Artículo **Tipo de soporte:** Revista
Posición de firma: 4 **Grado de contribución:** Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Fuente de citas: WOS **Citas:** 4

Resultados relevantes: Nine weeks after weaning, 12 lambs were randomised to 2 groups, each consisting of 6 animals. One group received a diet containing 213.9 mg/kg of fluor (F) in the form of sodium fluoride (NaF) and the other group received a diet containing 212.3 mg/kg of fluor in the form of sepiolite. The 24 h time courses of plasma fluoride concentrations showed that after feeding the average peak plasma concentration of the NaF-fed group was 0.75 microgram F/ml; that of the sepiolite-fed group was 0.35 microgram F/ml. The 12-h area under the plasma concentration curve (AUC) values in the NaF-fed group were higher with statistical significance (P less than 0.001) at each time point. Compared with fluoride from NaF, the relative bioavailability of fluoride from sepiolite was found to be very weak.

202 Maria Jose POZO; Gines Maria SALIDO; Jose Antonio MADRID. ACTION OF CHOLECYSTOKININ ON THE DOG SPHINCTER OF ODDI - INFLUENCE OF ANTICHOLINERGIC AGENTS. ARCHIVES INTERNATIONALES DE PHYSIOLOGIE DE BIOCHIMIE ET DE BIOPHYSIQUE. 98 - 6, pp. 353 -

360. Liege(Bélgica): SWETS ZEITLINGER PUBLISHERS, 01/12/1990. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/13813459009113997>. ISSN 0003-9799

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 2

Resultados relevantes: Effects of cholecystokinin (CCK) on bile flow through the sphincter of Oddi (SO) were studied in anaesthetized dogs. Intravenous injection of CCK (0.25, 0.5, 1 and 2 IDU/Kg) elicited a dose-dependent reduction in flow through the SO in the first minutes after CCK administration. Pirenzepine and atropine decreased significantly (P less than 0.05) by 29% and a 40% respectively the inhibitory effect induced by 1 IDU/Kg of CCK, whereas hexamethonium elicited an increase in the inhibitory effect induced by 0.5 IDU/Kg of CCK (P less than 0.05). Intravenous infusion of cummulative doses of CCK had different effects according to the dose infused. Lower doses (0.025 and 0.05 IDU/Kg/min) increased transphincteric flow, however, high doses (0.1, 0.2 and 0.4 IDU/Kg/min) were inhibitory. These finding indicated that CCK had two effects on the SO : firstly, a contractile effect, probably mediated through a direct myogenic action and neuronal release of ACh, and secondly a relaxant effect, probably mediated by stimulation of inhibitory postganglionic neurons.

203 LP FRANCIS; Pedro Javier CAMELLO; Jai-paul SINGH; Gines Maria SALIDO; Juan Antonio MADRID. EFFECTS OF PHORBOL ESTER ON CHOLECYSTOKININ OCTAPEPTIDE-EVOKED EXOCRINE PANCREATIC-SECRETION IN THE RAT. JOURNAL OF PHYSIOLOGY-LONDON. 431, pp. 27 - 37. New York(Estados Unidos de América): CAMBRIDGE UNIV PRESS, 01/12/1990. Disponible en Internet en: <http://jp.physoc.org/content/431/1/27.long>. ISSN 0022-3751

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 3.160
Fuente de citas: WOS
Citas: 14

Resultados relevantes: The results indicate that protein kinase C activation may play an important physiological role in modulating the CCK8-evoked secretory response in rat pancreas in vivo and in vitro.

204 Jose Antonio PARIENTE; Jose Antonio MADRID; Gines Maria SALIDO. ROLE OF HISTAMINE-RECEPTORS IN RABBIT PANCREATIC EXOCRINE SECRETION STIMULATED BY CHOLECYSTOKININ AND SECRETIN. EXPERIMENTAL PHYSIOLOGY. 75 - 5, pp. 657 - 667. New York(Estados Unidos de América): CAMBRIDGE UNIV PRESS, 01/09/1990. Disponible en Internet en: <http://ep.physoc.org/content/75/5/657.long>. ISSN 0958-0670

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 1.526
Fuente de citas: WOS
Citas: 9

Resultados relevantes: An investigation was made of the effects of H1 and H2 receptor agonists and antagonists on rabbit pancreatic exocrine secretion stimulated by secretin and cholecystokinin (CCK). The H1 agonist 2-thiazolylethylamine elicited dose-dependent increases in the rate of secretion. Increases in pancreatic juice flow and enzyme output were also noted after H2 antagonist cimetidine. In contrast, the H1 antagonist chlorpheniramine and H2 agonist dimaprit caused reductions in flow and enzyme output. The results suggest that H1 receptors have stimulative effects and H2 receptors have inhibitory effects on exocrine rabbit pancreas.

205 Juan Antonio MADRID; P Matas; Gines Maria SALIDO. Growth, food intake and meal patterns in rats exposed 21 hour ligth-dark cycles.JOURNAL OF INTERDISCIPLINARY CYCLE RESEARCH. 21 - 3, pp. 213 - 216. (Reino Unido): SWETS ZEITLINGER PUBLISHERS, 01/09/1990. Disponible en Internet en: <http://www.tandfonline.com/doi/abs/10.1080/09291019009360064>. ISSN 0022-1945

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 3

206 Gines Maria SALIDO; Roger Lennard; Jaipaul Singh; Jose Antonio PARIENTE. Histamine-evoked amylase secretion is associated with small changes in calcium mobilization in isolated guinea-pig pancreas. EXPERIMENTAL PHYSIOLOGY. 75 - 5, pp. 263 - 266. New York(Estados Unidos de América): CAMBRIDGE UNIV PRESS, 01/09/1990. Disponible en Internet en: <http://ep.physoc.org/content/75/2/263.full.pdf>. ISSN 0958-0670

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 1.526
Fuente de citas: WOS
Citas: 9

Resultados relevantes: The results suggest that histamine may have a physiological role in exocrine secretion of the guinea-pig pancreas but is less potent than ACh.

207 Jose Antonio PARIENTE; LP FRANCIS; Gines Maria SALIDO; Jose Antonio MADRID. CIMETIDINE INCREASES THE PANCREATIC RESPONSE TO HISTAMINE. AGENTS AND ACTIONS. 30 - 3-4, pp. 307 - 312. Berlin(Alemania): BIRKHAUSER VERLAG AG, 01/06/1990. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF01966292?LI=true>. ISSN 0065-4299

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 10

Resultados relevantes: The effects of histamine alone and histamine plus cimetidine on basal pancreatic exocrine secretion were determined in anaesthetized rabbits with an acute pancreatic cannula. Intravenous histamine administration (0.2-0.8 n mol/kg/min) increased pancreatic enzyme secretion. A much greater stimulative effect on pancreatic secretion was observed when histamine was administered against a constant background of H2 antagonist (cimetidine 4 mumol/kg/min). The results indicate that in the rabbit pancreas the stimulatory effect of histamine is mediated by H1 receptors.

208 Maria Jose POZO; MD SALIDO; Juan Antonio MADRID; Gines Maria SALIDO. INVITRO EFFECT OF PIRENZEPINE ON MOTILITY OF CANINE GALLBLADDER. JOURNAL OF PHARMACY AND PHARMACOLOGY. 42 - 2, pp. 89 - 93. London(Reino Unido): ROYAL PHARMACEUTICAL SOC GREAT BRITAIN, 01/02/1990. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1111/j.2042-7158.1990.tb05360.x/abstract>. ISSN 0022-3573

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 0.771
Fuente de citas: WOS
Citas: 4

Resultados relevantes: The action of pirenzepine as an antimuscarinic drug has been investigated on motor responses of muscle strips in the canine gall-bladder. Pirenzepine was further used to examine whether gall-bladder motor responses to synthetic sulphated cholecystokinin octapeptide (CCK-8) are sensitive to pirenzepine. Pirenzepine (10(-9)-10(-5) M) antagonized muscle contractions in response to acetylcholine (10(-9)-10(-2) M) and CCK-8 (10(-11)-10(-6) M) in a significant manner. These findings indicate that pirenzepine is a potent antagonist of two substances that are the principal contractile mediators of gall-bladder contraction and suggest that long-term administration of pirenzepine could contribute to stasis of the gall-bladder.

209 Gines Maria Salido. Participación de la histamina en la regulación de la secreción pancreática exocrina.Acta Veterinaria. pp. 9 - 12. Caceres, Extremadura(España): Facultad de Veterinaria de la Universidad de Extremadura, 01/01/1990. ISSN 0214-039X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista sin comité externo evaluador de admisión

210 MA Chaso Arrebola; MR Pascual; Juan Antonio Madrid; Gines Maria Salido. Bioavailability of fluoride from dietary sepiolite in the lamb. Annales de Recherches Veterinaires (Paris). pp. 49 - 52. Paris, Île de France(Francia): Institut Nationonal de la Recherche Agronomique, 01/01/1990. ISSN 0003-4193

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista sin comité externo evaluador de admisión

211 Gines Maria SALIDO; LP FRANCIS; Pedro Javier CAMELLO; Jaipaul SINGH; Jose Antonio MADRID; Jose Antonio PARIENTE. EFFECTS OF PHORBOL ESTERS AND SECRETIN ON PANCREATIC-JUICE SECRETION IN THE ANESTHETIZED RAT. GENERAL PHARMACOLOGY. 21 - 4, pp. 465 - 469. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/01/1990. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/030636239090699M>. ISSN 0306-3623

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 1.056
Fuente de citas: WOS
Citas: 17

Resultados relevantes: The results indicate that protein kinase C activation is associated with pancreatic juice secretion and it may also modulate secretin-induced pancreatic juice flow in the anaesthetized rat.

212 Gines Maria SALIDO; MZ GIL; Jose Antonio PARIENTE; Maria Jose POZO; Juan Antonio MADRID. EFFECTS OF PIRENZEPINE ON CCK-STIMULATED CANINE PANCREATIC EXOCRINE SECRETION. GENERAL PHARMACOLOGY. 21 - 2, pp. 195 - 198. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): PERGAMON-ELSEVIER SCIENCE LTD, 01/01/1990. Disponible en Internet en: <http://www.sciencedirect.com/science/article/pii/0306362390909007>. ISSN 0306-3623

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 1.056
Fuente de citas: WOS
Citas: 1

Resultados relevantes: 1. The effects of the anticholinergic compound pirenzepine on pancreatic secretion stimulated by intravenous infusions of increasing doses of CCK (0.025-0.4 Ivy Dog Unit/kg/min) were investigated in fasting anaesthetized dogs. 2. Pirenzepine (0.75 mg/kg i.v.) slightly reduced the increases in the pancreatic juice

secretion evoked by CCK. 3. Similar results were obtained with others anticholinergic compounds as atropine (3 mg/kg i.v.) and hexametonium (5 mg/kg i.v.).

213 Maria Jose POZO; Gines Maria SALIDO; Jose Antonio MADRID. CHOLECYSTOKININ INDUCED GALLBLADDER CONTRACTION IS INFLUENCED BY NICOTINIC AND MUSCARINIC RECEPTORS. ARCHIVES INTERNATIONALES DE PHYSIOLOGIE DE BIOCHIMIE ET DE BIOPHYSIQUE. 97 - 5, pp. 403 - 408. Liege(Bélgica): SWETS ZEITLINGER PUBLISHERS, 01/10/1989. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/13813458909104553?journalCode=arp>. ISSN 0003-9799

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 19

Resultados relevantes: We concluded that CCK induced gallbladder contractions were influenced by both nicotinic and muscarinic receptors.

214 Jose Antonio PARIENTE; Jose Antonio MADRID; Gines Maria SALIDO. HISTAMINE-RECEPTORS IN UNSTIMULATED PANCREATIC EXOCRINE SECRETION OF THE RABBIT. AGENTS AND ACTIONS. 28 - 1-2, pp. 62 - 69. Berlin(Alemania): BIRKHAUSER VERLAG AG, 01/08/1989. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF02022981?LI=true>. ISSN 0065-4299

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 18

Resultados relevantes: Histamine H2-receptor antagonists cimetidine and oxmetidine, H2-receptor agonist dimaprit, H1-receptor antagonist chlorpheniramine and H1-receptor agonist 2-thiazolylethylamine were tested for their effects on unstimulated pancreatic exocrine secretion in anaesthetized rabbits fitted with an acute pancreatic cannula. Intravenous administration of H1 agonist induces a dose-dependent increase in pancreatic secretion but H1 antagonist have the opposite effects. Intravenous administration of H2 antagonists induces effects similar the ones produced after H1 agonist infusion. The implications of H1 and H2 receptors on exocrine pancreatic secretion are discussed.

215 P MUNOZARREBOLA; Jose Antonio MADRID; Gines Maria SALIDO; Emilio DEVICTORIA. MODIFICATIONS OF GAMMA-GLUTAMYL-TRANSFERASE TRANSPEPTIDASE ACTIVITY IN DUODENAL MUCOSA OF RATS TREATED WITH DIFFERENT ANTIULCER DRUGS. ARCHIVES INTERNATIONALES DE PHYSIOLOGIE DE BIOCHIMIE ET DE BIOPHYSIQUE. 97 - 3, pp. 231 - 234. Liege(Bélgica): SWETS ZEITLINGER PUBLISHERS, 01/06/1989. Disponible en Internet en: <http://europepmc.org/abstract/MED/2482713>. ISSN 0003-9799

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 2

Resultados relevantes: The activity of gamma-glutamyl transpeptidase (gamma-GT) in duodenal mucosa both in healthy rats and in rats experimentally ulcerated with indomethacin increases significantly after oral administration of pirenzepine as well as ranitidine but not after oral administration of sucralphate. These increase in gamma-GT activity may contribute to the cytoprotective effects already described for pirenzepine and ranitidine.

216 MA Chaso Arrebola; MR Pascual; Juan Antonio Madrid; Gines Maria Salido. Efectos del flúor dietario sobre el crecimiento de los corderos. Acta Veterinaria. pp. 49 - 52. Caceres, Extremadura(España): Facultad de Veterinaria de la Universidad de Extremadura, 01/01/1989. ISSN 0214-039X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista sin comité externo evaluador de admisión

217 Jose Antonio MADRID; Gines Maria SALIDO; P MUNOZARREBOLA; Emilio DEVICTORIA. CIRCADIAN-RHYTHMS OF FOOD-INTAKE IN GASTRODUODENALLY-ULCERATED RATS - EFFECTS OF 3 ANTI-ULCER DRUGS. CHRONOBIOLOGY INTERNATIONAL. 6 - 4, pp. 321 - 328. New York(Estados Unidos de América): MARCEL DEKKER INC, 01/01/1989. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/07420528909056938?journalCode=cbi>. ISSN 0742-0528

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHYSIOLOGY
Índice de impacto: 0.824
Fuente de citas: WOS
Citas: 3

Resultados relevantes: The results indicate that circadian modification of meal patterns in the ulcerated rats are attributable to indomethacin-induced gastrointestinal mucosal injury and anti-ulcer medications.

218 German SOLER; JM BAUTISTA; Juan Antonio MADRID; Gines Maria SALIDO. CIRCADIAN-RHYTHMS IN ENZYMATIC-ACTIVITY OF RAT-LIVER ARGINASE AND GLUCOSE-6-PHOSPHATE DEHYDROGENASE. CHRONOBIOLOGIA. 15 - 3, pp. 205 - 212. ASSOCIATED CHRONOBIOLOGIA RESEARCHERS, 01/07/1988. ISSN 0390-0037

Tipo de producción: Artículo
Tipo de soporte: Revista
Fuente de citas: WOS
Citas: 11

Resultados relevantes: The circadian rhythms of glucose 6-phosphate dehydrogenase (G6PD) and of arginase activities and total protein content have been studied in the livers of 24-h fasted rats. Both G6PD and arginase activities reach a maximum at night and a minimum during the light period. On the other hand, the total protein level was maximal during the light period while it decreased to its lowest level during the dark period. These results are in agreement with the existence of a lipogenesis-lipolysis circadian rhythm in the rat, since the higher G6PD activity at night provides the necessary NADPH for lipid biosynthesis. The increase in arginase activity is also in agreement with an increase in amino-acid catabolism, probably as a source of energy and metabolic intermediates.

219 MC Verdu; Gines Maria Salido; M Lopez Frias; MS Campos; Francisco Jose Mataix. The effect of gestation and protein quality on the nutritive utilization of protein. Nahrung. 32 - 5, pp. 445 - 454. (Alemania): wiley-vch, 01/01/1988. Disponible en Internet en: <http://onlinelibrary.wiley.com/doi/10.1002/food.v32:5/issuetoc>. ISSN 1521-3803

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

220 P Muñoz Arrebola; Gines Maria Salido; Juan Antonio Madrid; E Redondo; V Roncero. Actividad de la GGT en el proceso ulcerativo duodenal inducido por indometacina. Acta Veterinaria. pp. 9 - 14. Caceres, Extremadura(España): Facultad de Veterinaria de la Universidad de Extremadura, 01/01/1988. ISSN 0214-039X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista sin comité externo evaluador de admisión

221 Juan Antonio MADRID; Gines Maria SALIDO; Emilio DEVICTORIA. EFFECT OF THE ANTIMUSCARINIC AGENT PIRENZEPINE ON THE INVIVO BILIARY-SECRETION OF DOGS IN RESPONSE TO VARIOUS STIMULI. PHYSIOLOGIA BOHEMOSLOVACA. 37 - 1, pp. 67 - 77. Praha, Praha(República Checa): ACADEMIA, 01/01/1988. Disponible en Internet en: <http://europepmc.org/abstract/MED/2967510>. ISSN 0014-1291

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 7

Resultados relevantes: This study suggest that the effect of pirenzepine on biliary secretion is mainly due to its action on the emptying of the gallbladder.

222 L ENRIQUEZACOSTA; Juan Manuel Hernandez Cruz; JA MADRID; Gines Maria SALIDO. ALTERATIONS IN THE CIRCADIAN SECRETION OF CORTISOL IN SOME DIABETIC-PATIENTS - CLINICAL AND THERAPEUTIC IMPLICATIONS. REVISTA CLINICA ESPANOLA. 180 - 5, pp. 238 - 241. (España): IDEPSA, 01/03/1987. ISSN 0014-2565

Tipo de producción: Artículo
Tipo de soporte: Revista
Fuente de citas: WOS
Citas: 0

223 Jesus Rodriguez Huertas; Juan Antonio Madrid; Gines Maria Salido; Mariano Mañas; Emilio Martinez de Victoria. Physiological role and characteristics of the late pancreatic postprandial hypersecretion in conscious dogs. JOURNAL OF CLINICAL NUTRITION AND GASTROENTEROLOGY. 37 - 1, pp. 67 - 77. Sevilla, Andalucía(España): Sistema Sanitario Público de Andalucía, 01/01/1987. ISSN 0214-2880

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

224 Jose Antonio Pariente; Maria Jose Pozo; Juan Antonio Madrid; Gines Maria Salido. Efectos secretagogos de la cimetidina sobre la secreción pancreática exocrina del conejo. Acta Veterinaria. pp. 29 - 35. Caceres, Extremadura(España): Facultad de Veterinaria de la Universidad de Extremadura, 01/01/1987. ISSN 0214-039X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 4
Grado de contribución: Autor/a o coautor/a de artículo en revista sin comité externo evaluador de admisión

225 Francisco Jose Mataix; Gines Maria Salido; MJ Martí; A Gil. estudio de las fórmulas infantiles presentes en el mercado español y su adecuación a las recomendaciones de ESPGN. Anales Españoles de Pediatría. pp. 5 - 10. (España): Asociación Española de Pediatría, 01/01/1987. ISSN 1695-4033

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

226 Juan Antonio MADRID; Gines Maria SALIDO; Emilio DEVICTORIA; Francisco Jose MATAIX. EFFECT OF THE HISTAMINE-H2 ANTAGONIST CIMETIDINE ON MEAL-STIMULATED BILIARY-SECRETION IN DOGS. ACTA PHYSIOLOGICA ET PHARMACOLOGICA LATINOAMERICANA. 36 - 1, pp. 59 - 67. Buenos Aires(Argentina): ASOC LATINOAMER CIENC FISIOL, 01/01/1986. ISSN 0001-6764

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 0

Resultados relevantes: In conscious dogs with a bidirectional biliary cannula we studied the effect of orally administered cimetidine (10 mg/kg) on biliary secretion in response to a standard meal. The intake of a meal induced a significant increase in the biliary flow. When cimetidine is administered before feeding, a greater biliary response was observed in both cholecystectomized and uncholecystectomized animals. Under our experimental conditions this effect could be explained by an increase in the resistance of the sphincter of Oddi together with an increase in biliary tract and gallbladder motility. On the other hand, decrease in taurocholate and increase in chloride concentrations were observed during cimetidine treatment in all dogs. Moreover cimetidine elicits a fall in bilirubin concentration in cholecystectomized animals. The changes in organic anions could be due to a reduction in portal blood flow together with an interference of cimetidine with hepatic oxidative pathways. The greater concentration of chloride could be due to a lesser release of secretin. Most of these effects were transitory because they return to control values after the end of treatment.

227 Gines Maria SALIDO; LA Raggi; Juan Antonio MADRID. Efectos de la secretina y CCK-PZ exógenas sobre la secreción pancreática exocrina en el pollo. AVANCES EN CIENCIAS VETERINARIAS. 36 - 1, pp. 59 - 67. Santiago de Chile(Chile): ASOC LATINOAMER CIENC FISIOL, 01/01/1986. Disponible en Internet en: <http://www.avancesveterinaria.uchile.cl/index.php/ACV/article/viewFile/10381/10730>. ISSN 0716-260X

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

228 Juan Antonio MADRID; Gines Maria SALIDO; Emilio DEVICTORIA; Francisco Jose MATAIX. CIMETIDINE AND POSTPRANDIAL PANCREATIC EXOCRINE SECRETION IN DOGS. AGENTS AND ACTIONS. 17 - 2, pp. 145 - 149. Berlin(Alemania): BIRKHAUSER VERLAG AG, 01/12/1985. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF01966583?LI=true>. ISSN 0065-4299

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 5

Resultados relevantes: The oral administration (200 mg/day) of cimetidine to dogs was seen to elicit a marked decrease in postprandial flow increase and bicarbonate output, coinciding with a significant increase in amylase and total protein output. At the same time the postprandial duodenal pH remained at levels similar to those obtained in basal periods. The implications of secretin, gastrin and cholecystokinin (CCK) on these effects are discussed.

229 Gines Maria SALIDO; F PEDROSA; Maria Abdona LOPEZ. NERVOUS REGULATION OF THE EXOCRINE PANCREATIC-SECRETION IN CHICKEN. REVISTA ESPANOLA DE FISIOLOGIA. 41 - 1, pp. 11 - 17. Madrid, Comunidad de Madrid(España): REV ESPANOLA FISIOLOGIA, 01/01/1985. ISSN 0034-9402

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 0

230 Juan Antonio MADRID; Gines Maria SALIDO; Emilio DEVICTORIA; Mariano MANAS; Francisco Jose MATAIX. POSTPRANDIAL PANCREATIC EXOCRINE SECRETION IN DOGS AFTER ORAL-ADMINISTRATION OF PIRENZEPINE DIHYDROCHLORIDE. ARZNEIMITTEL-FORSCHUNG/DRUG RESEARCH. 35-2 - 10, pp. 1560 - 1562. AULENDORF(Alemania): ECV-EDITIO CANTOR VERLAG MEDIZIN NATURWISSENSCHAFTEN, 01/01/1985. Disponible en Internet en: <http://europepmc.org/abstract/MED/2416323>. ISSN 0004-4172

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - PHARMACOLOGY & PHARMACY
Índice de impacto: 0.627
Fuente de citas: WOS
Citas: 10

Resultados relevantes: The effect of orally administered 1,5-dihydroxy-11-(4-methyl-1-piperazinyl)-acetyl-6H-pyrido[2,3-b]-1,4-benzodiazepin-6-one dihydrochloride (pirenzepine dihydrochloride, LS-519 Cl, Gastrozepin) on the postprandial secretion of pancreatic juice and the duodenal pH was studied in conscious dogs. An inhibition of the normal increase of the postprandial pancreatic secretion was observed. A possible indirect role of endogenous secretin and a cholinergic enteropancreatic reflex was discussed.

231 Gines Maria SALIDO; F PEDROSA; Alejandro ESTELLER; Maria Abdona LOPEZ. BASAL AND SPONTANEOUS EXOCRINE PANCREATIC-SECRETION IN CONSCIOUS AND ANESTHETIZED CHICKENS, GALLUS DOMESTICUS. PHYSIOLOGIA BOHEMOSLOVACA. 34 - 6, pp. 502 - 511. Praha,

Praha(República Checa): Academia Scientiarum Bohemoslovaca, 01/01/1985. Disponible en Internet en: <http://europepmc.org/abstract/MED/2418452/reload=0;jsessionid=6lygzPUUj9IUkgsit4KU.4>. ISSN 0014-1291

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 0

Resultados relevantes: Basal exocrine pancreatic secretion was studied in anaesthetized and conscious chickens and spontaneous secretion was studied in anaesthetized chickens. Results are compared with those of other vertebrates to estimate the specific pattern of this secretion in birds. The flow of pancreatic juice was greater in conscious chickens than when anaesthetized. Amylase activity was greater than that of the other species and was of the same order in anaesthetized and conscious birds. A spontaneous exocrine pancreatic secretion was seen to remain after eliminating a large part of the tonic influences.

232 Francisco Jose Mataix; Gines Maria Salido. Importancia de las legumbres en la nutricion humana. Importancia de las legumbres en la nutricion humana. Madrid, Comunidad de Madrid(España): Fundación española de Nutricion, 01/01/1985. Disponible en Internet en: <http://www.fen.org.es/imgPublicaciones/25120075525.pdf>.

Tipo de producción: Libro
Tipo de soporte: Libro
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de libro completo

233 Jesus RODRIGUEZ HUERTAS; Juan Antonio MADRID; Gines Maria SALIDO; Mariano MANAS; Emilio DEVICTORIA. CIMETIDINE MODIFIES THE LATE POSTPRANDIAL PANCREATIC HYPERSECRETION IN DOGS. IRCS MEDICAL SCIENCE-BIOCHEMISTRY. 13 - 7, pp. 635 - 636. Baltimore(Estados Unidos de América): ELSEVIER-IRCS LTD, 01/01/1985.

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 8

234 Gines Maria Salido; Juan Antonio Madrid; Eugenio Martin; Alejandro Esteller; Maria Abdona Lopez. Circadian rhytmiciy in the "basal" pancreatic secretion of the domestic fowl. Chronobiology international. 1 - 3, pp. 173 - 176. NEW YORK(Estados Unidos de América): MARCEL DEKKER INC, 01/01/1984. Disponible en Internet en: <http://informahealthcare.com/doi/abs/10.3109/07420528409063893>. ISSN 0742-0528

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Resultados relevantes: The interdigestive pancreatic exocrine secretion of the domestic fowl has been studied following the cosine-vector analysis. For the flow of pancreatic juice the crest phase was at 1040 and the sample amplitude was 2.26 microliter/min. For the amylase output the crest phase was at 1128 and the sample amplitude was 0.297 U.A.A./min. Both parameters are characterized by a phase-and frequency-synchronized rhythm whose period must be close to 24 hr.

235 Gines Maria SALIDO; F Pedrosa; Maria Abdona Lopez. Respuesta a la comida y fase cefálica de la secreción pancreática exocrina en el pollo. Anales de la faculta de Veterinaria de Leon. 30, pp. 259 - 267. Oviedo, Principado de Asturias(España): Facultad de Veterinaria de la Universidad de Leon, 01/01/1984. ISSN 0373-1170

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

236 P MUNOZARREBOLA; Juan Antonio MADRID; Gines Maria SALIDO; emilio DEVICTORIA; Francisco Jose MATAIX. THE EFFECT OF PIRENZEPINE (ANTI MUSCARINIC DRUG) ON THE NUTRITIVE-VALUE OF SOME NUTRIENTS. REVISTA CLINICA ESPANOLA. 175 - 2, pp. 103 - 105. Madrid, Comunidad de Madrid(España): IDEPSA, 01/01/1984. ISSN 0014-2565

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de citas: WOS
Citas: 0

237 P MUNOZARREBOLA; Juan Antonio MADRID; Ginés Maria SALIDO; Emilio DEVICTORIA; Francisco Jose MATAIX. INFLUENCE OF CIMETIDINE ON THE NUTRITIVE UTILIZATION OF PROTEIN AND FAT IN DOGS. IRCS MEDICAL SCIENCE-BIOCHEMISTRY. 12 - 7, pp. 573 - 574. Baltimore(Estados Unidos de América): ELSEVIER-IRCS LTD, 01/01/1984. ISSN 0305-6708

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 3
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

238 Juan Antonio MADRID; Gines Maria SALIDO; Mariano MANAS; Emilio MARTINEZ DEVICTORIA; Jose MATAIX. USE OF A BIDIRECTIONAL CANNULA TO STUDY BILIARY-SECRETION IN CONSCIOUS DOGS. LABORATORY ANIMALS. 17 - 4, pp. 307 - 310. London(Reino Unido): ROYAL SOC MEDICINE PRESS LTD, 01/01/1983. Disponible en Internet en: <http://la.rsmjournals.com/content/17/4/307.long>. ISSN 0023-6772

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo
Fuente de impacto: WOS (JCR)
Categoría: Science Edition - VETERINARY SCIENCES
Índice de impacto: 0.478
Fuente de citas: WOS
Citas: 9

Resultados relevantes: A new biliary bidirectional cannula is described which allows the study of biliary secretion in conscious dogs under conditions which approach physiological normality.

239 Gines Maria Salido; Juan Antonio Madrid; Alejandro Esteller; Maria Abdona Lopez. effect of electrical stimulation of the vagus nerve on the exocrine pancreatic secretion in the chicken. Exogenous and endogenous influences on metabolic and neural contro. 2, pp. 17 - 18. Oxford, Berkshire, Buckinghamshire and Oxfordshire(Reino Unido): Pergamon Press, 01/01/1982.

Tipo de producción: Capítulos de libros
Tipo de soporte: Libro
Posición de firma: 2
Grado de contribución: Autor/a o coautor/a de capítulo de libro

240 Gines Maria SALIDO; Alejandro Esteller; Maria Abdona Lopez. Nueva técnica experimental para el estudio de la secreción pancreática exocrina en el pollo anestesiado y no anestesiado. ARS PHARMACEUTICA. 22, pp. 375 - 385. Granada, Andalucía(España): Facultad de Farmacia de la Universidad de Granada, 01/01/1981. ISSN 0004-2927

Tipo de producción: Artículo
Tipo de soporte: Revista
Posición de firma: 1
Grado de contribución: Autor/a o coautor/a de artículo en revista con comité evaluador de admisión externo

Trabajos presentados en congresos nacionales o internacionales

1 **Título del trabajo:** Regulation of TRPC channels by inmunophilins in human platelets
Nombre del congreso: International Workshop on Transient Receptor Potential (TRP) Channels
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 12/09/2012

Fecha de finalización: 14/09/2012
Entidad organizadora: Cátedra Santiago Grisolía **Tipo de entidad:** Fundación
Ciudad entidad organizadora: Valencia, Comunidad Valenciana, España
Forma de contribución: Artículo
Esther López; Alejandro Berna Erro; Ginés María Salido; Juan Antonio Rosado; Pedro Cosme Redondo. Disponible en Internet en: <http://www.fundacioncac.es/UserFiles/File/TRP2012%20List%20of%20posters%281%29.pdf>.

2 **Título del trabajo:** TRPC6 confers pH sensitivity to OAG-mediated aggregation in mouse platelets
Nombre del congreso: International Workshop on Transient Receptor Potential (TRP) Channels
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 12/09/2012
Fecha de finalización: 14/09/2012
Entidad organizadora: Cátedra Santiago Grisolía **Tipo de entidad:** Fundación
Ciudad entidad organizadora: Valencia, Comunidad Valenciana, España
Forma de contribución: Artículo
Letizia Albarran; Alejandro Berna Erro; Natalia Dionisio; Pedro Cosme Redondo; Ginés María Salido; Juan Antonio Rosado. Disponible en Internet en: <http://www.fundacioncac.es/UserFiles/File/TRP2012%20List%20of%20posters%281%29.pdf>.

3 **Título del trabajo:** Orai1 is not permeable to manganese in the presence of extracellular calcium
Nombre del congreso: Joint FEPS & Spanish Physiological Society Scientific Congress 2012
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster
Ciudad de celebración: Santiago de Compostela, Galicia, España
Fecha de celebración: 08/09/2012
Fecha de finalización: 12/09/2012
Entidad organizadora: FEPS & Spanish Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Forma de contribución: Artículo
Natalia Dionisio; Isaac Jardin; Luis J Gómez; Ginés María Salido; Juan Antonio Rosado. Disponible en Internet en: <http://www.feps2012.org/programme-poster.asp>.

4 **Título del trabajo:** Ebselen induces changes in cytosolic free Ca2+ concentration, alters mitochondrial physiology and reduces viability of rat hippocampal astrocytes in culture
Nombre del congreso: Joint FEPS & Spanish Physiological Society Scientific Congress 2012
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster
Ciudad de celebración: Santiago de Compostela, Galicia, España
Fecha de celebración: 08/09/2012
Fecha de finalización: 12/09/2012
Entidad organizadora: FEPS & Spanish Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Forma de contribución: Artículo
Patricia Santofimia Castaño; Ginés María Salido; Antonio González. Disponible en Internet en: <http://www.feps2012.org/programme-poster.asp>.

5 **Título del trabajo:** TRPC6 participates in the regulation of cytoplasmic calcium concentration in murine resting platelets
Nombre del congreso: Joint FEPS & Spanish Physiological Society Scientific Congress 2012

Tipo evento: Congreso
Ámbito geográfico: Unión Europea
Tipo de participación: Póster
Ciudad de celebración: Santiago de Compostela, Galicia, España
Fecha de celebración: 08/09/2012
Fecha de finalización: 12/09/2012
Entidad organizadora: FEPS & Spanish Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Natalia Dionisio; Letizia Albarran; Alejandro Berna Erro; Pedro Cosme Redondo; Ginés María Salido; Juan Antonio Rosado. Disponible en Internet en: <http://www.feps2012.org/programme-poster.asp>.

6 **Título del trabajo:** El tratamiento prolongado con Rapamicina induce alteraciones morfológicas y funcionales en plaquetas de pacientes con trasplante renal
Nombre del congreso: II Congreso de la Sociedad Española de Trasplante
Tipo evento: Congreso
Ámbito geográfico: Nacional
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Madrid, España
Fecha de celebración: 23/06/2012
Fecha de finalización: 26/06/2012
Entidad organizadora: Sociedad Española de Trasplante
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Forma de contribución: Artículo
Juan José Cubero Gomez; Esther López; Alejandro Berna Erro; R Alvarado; G García Pino; R Martinez R; Ginés María Salido; Juan Antonio Rosado; Pedro Cosme Redondo. Disponible en Internet en: <http://www.setrasplante.org/SET2012/modules/scientificprogram/files/programa.pdf>.

7 **Título del trabajo:** EPAC-mediated distribution of E-cadherin during the acrosome reaction requires the small G-protein Rap1 and Protein Kinase C
Nombre del congreso: 11th International Congress of the Spanish-Association-for-Animal-Reproduction (AERA)
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Cordoba, España
Fecha de celebración: 12/06/2012
Fecha de finalización: 16/06/2012
Entidad organizadora: Spanish Assoc Anim Reprod (AERA)
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Forma de contribución: Artículo
Inés María Aparicio; Alvaro Miro Morán; Cristina Ortega Ferrusola; Ginés María Salido; Fernando J. Peña; Juan Antonio Tapia. En: Reproduction in Domestic Animals. 47 - 3, pp. 102 - 102. (Estados Unidos de América): WILEY-BLACKWELL, Disponible en Internet en: <http://www.aera2012.com/es/uploads/files/LISTADO%20PROVISIONAL%20COMUNICACIONES%20ACEPTADAS.p
ISSN 0936-6768

8 **Título del trabajo:** The membrane of the mammalian spermatozoa: much more than an inert envelope
Nombre del congreso: 11th International Congress of the Spanish-Association-for-Animal-Reproduction (AERA)
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Cordoba, España

Fecha de celebración: 12/06/2012
Fecha de finalización: 16/06/2012
Entidad organizadora: Spanish Assoc Anim Reprod **Tipo de entidad:** Asociaciones y Agrupaciones (AERA)
Ciudad entidad organizadora: España
Forma de contribución: Artículo
Juan Antonio Tapia; B Macias García; Alvaro Miro Morán; Cristina Ortega Ferrusola; Ginés María Salido; Fernando J. Peña. En: Reproduction in Domestic Animals. 47 - 3, pp. 65 - 75. (Estados Unidos de América): WILEY-BLACKWELL, Disponible en Internet en: <http://www.aera2012.com/es/uploads/files/LISTADO%20PROVISIONAL%20COMUNICACIONES%20ACEPTADAS.p
ISSN 0936-6768

9 **Título del trabajo:** c-Jun N-terminal kinase (JNK) is playing a role in the survival of cooled-stored stallion spermatozoa
Nombre del congreso: 11th International Congress of the Spanish-Association-for-Animal-Reproduction (AERA)
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cordoba, España
Fecha de celebración: 12/06/2012
Fecha de finalización: 16/06/2012
Entidad organizadora: Spanish Assoc Anim Reprod **Tipo de entidad:** Asociaciones y Agrupaciones (AERA)
Ciudad entidad organizadora: España
Forma de contribución: Artículo
Alvaro Miro Morán; Inés María Aparicio; JM Gallardo Bolaños; Cristina Ortega Ferrusola; Ginés María Salido; Fernando J. Peña; Juan Antonio Tapia. En: Reproduction in Domestic Animals. 47 - 3, pp. 114 - 114. (Estados Unidos de América): WILEY-BLACKWELL, Disponible en Internet en: <http://www.aera2012.com/es/uploads/files/LISTADO%20PROVISIONAL%20COMUNICACIONES%20ACEPTADAS.p
ISSN 0936-6768

10 **Título del trabajo:** Antioxidants and cell function
Nombre del congreso: Biology of Ageing
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Carmona, España
Fecha de celebración: 11/03/2012
Fecha de finalización: 14/03/2012
Entidad organizadora: EMBAJADA DEL REINO UNIDO (BRITISH COUNCIL)
Ciudad entidad organizadora: España
Forma de contribución: Artículo
Patricia SANTOFIMIA; Ginés María Salido; Antonio González.

11 **Título del trabajo:** Main Role of c-Jun N-Terminal Kinases in Stallion Spermatozoa
Nombre del congreso: XV Annual Conference Of The European Veterinary Society For Domestic Animal Reproduction
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Antalya, Turquía
Fecha de celebración: 15/09/2011
Fecha de finalización: 17/09/2011
Tipo de entidad: Asociaciones y Agrupaciones

Entidad organizadora: European Veterinary Society For Domestic Animal Reproduction
Ciudad entidad organizadora: Uppsala, Stockholm, Suecia
Forma de contribución: Artículo
Álvaro Miró Morán; B Macias García; Inés María Aparicio; Cristina Ortega Ferrusola; Fernando J. Peña; Ginés María Salido; Juan Antonio Tapia. En: Reproduction In Domestic Animals. 46 - 3, pp. 130 - 130. (Estados Unidos de América): WILEY-BLACKWELL, ISSN 0936-6768

12 **Título del trabajo:** Role of the cAMP Acting through a Protein Kinase A-Independent Pathway in Boar Spermatozoa
Nombre del congreso: XV Annual Conference Of The European Veterinary Society For Domestic Animal Reproduction
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Antalya, Turquía
Fecha de celebración: 15/09/2011
Fecha de finalización: 17/09/2011
Entidad organizadora: European Veterinary Society For Domestic Animal Reproduction **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Uppsala, Stockholm, Suecia
Forma de contribución: Artículo
Juan Antonio Tapia; Álvaro Miró Morán; B Macias García; Cristina Ortega Ferrusola; Fernando J. Peña; Ginés María Salido; Inés María Aparicio. "Reproduction In Domestic Animals". 46 - 3, pp. 153 - 153. (Estados Unidos de América): WILEY-BLACKWELL, ISSN 0936-6768

13 **Título del trabajo:** The molecular machinery of the autophagy pathway is present in mammalian spermatozoa and could be playing an important role in these cells
Nombre del congreso: XV Annual Conference Of The European Veterinary Society For Domestic Animal Reproduction
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Antalya, Turquía
Fecha de celebración: 15/09/2011
Fecha de finalización: 17/09/2011
Entidad organizadora: European Veterinary Society For Domestic Animal Reproduction **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Uppsala, Stockholm, Suecia
Forma de contribución: Artículo
Inés María Aparicio; Álvaro Miró Morán; B Macias García; Cristina Ortega Ferrusola; Ginés María Salido; Fernando J. Peña; Juan Antonio Tapia. En: Reproduction In Domestic Animals. 46 - 3, pp. 84 - 84. (Estados Unidos de América): WILEY-BLACKWELL, ISSN 0936-6768

14 **Título del trabajo:** Homer1 has a role in store-operated calcium entry in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011
Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si

Forma de contribución: Artículo
Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. "Homer1 has a role in store-operated calcium entry in human platelets". En: Proceedings of The Physiological Society. 23, pp. PC114 - PC114. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC114>. ISSN 1749-6187

15 **Título del trabajo:** Immunophilin proteins participate in platelet aggregation by regulating granule secretion and calcium homeostasis
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011
Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Alejandro Berna Erro; Esther Lopez; Juan Manuel Hernandez Cruz; Nuria Bermejo; Javier Garcia Casado; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "Immunophilin proteins participate in platelet aggregation by regulating granule secretion and calcium homeostasis". En: Proceedings of The Physiological Society. 23, pp. PC108 - PC108. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC108>. ISSN 1749-6187

16 **Título del trabajo:** Modulation of the dynamic interaction between STIM1, Orai1 and TRPC1 by the cytoskeleton in HEK-293 cells
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011
Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Natalia Dionisio; Carmen Galan; Gines Maria Salido; Juan Antonio Rosado. "Modulation of the dynamic interaction between STIM1, Orai1 and TRPC1 by the cytoskeleton in HEK-293 cells". En: Proceedings of The Physiological Society. 23, pp. PC92 - PC92. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC92>. ISSN 1749-6187

17 **Título del trabajo:** Bruton's tyrosine kinase participates in the regulation of STIM 1 by tyrosine phosphorylation during SOCE in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011
Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones

Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Esther Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "Bruton's tyrosine kinase participates in the regulation of STIM 1 by tyrosine phosphorylation during SOCE in human platelets". En: Proceedings of The Physiological Society. 23, pp. PC99 - PC99. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC99>. ISSN 1749-6187

18 **Título del trabajo:** Calcium mobilization by NAADP from acidic stores in the megakaryoblastic cell line MEG01
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011
Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Natalia Dionisio; Leticia Albarran; Jose Javier Lopez; Regis Bobe; Gines Maria Salido; Juan Antonio Rosado. "Calcium mobilization by NAADP from acidic stores in the megakaryoblastic cell line MEG01". En: Proceedings of The Physiological Society. 23, pp. PC113 - PC113. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC113>. ISSN 1749-6187

19 **Título del trabajo:** Thapsigargin and the diacylglycerol analogue 1-oleoyl-2-acetyl-sn-glycerol differentially regulate the association between Orai and STIM proteins in human platelets.
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011
Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Carmen Galan; Leticia Albarran; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado. "Thapsigargin and the diacylglycerol analogue 1-oleoyl-2-acetyl-sn-glycerol differentially regulate the association between Orai and STIM proteins in human platelets.". En: Proceedings of The Physiological Society. 23, pp. PC324 - PC324. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC324>. ISSN 1749-6187

20 **Título del trabajo:** Functional involvement of the calmodulin/inositol 1,4,5-trisphosphate receptor-binding region of TRPC6 in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Fecha de celebración: 11/07/2011

Fecha de finalización: 15/07/2011
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Natalia Dionisio; Leticia Albarran; Jose Javier Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado. "Functional involvement of the calmodulin/inositol 1,4,5-trisphosphate receptor-binding region of TRPC6 in human platelets". En: Proceedings of The Physiological Society. 23, pp. PC323 - PC323. Inner London (Reino Unido): IOP Publishing, 11/07/2011. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2023PC323>. ISSN 1749-6187

21 **Título del trabajo:** EL ETANOL REDUCE LA SECRECIÓN DE GLUTAMATO MEDIADA POR KAINATO EN ASTROCITOS DE HIPOCAMPO DE RATA
Nombre del congreso: I Jornadas Veterinarias de Estudiantes.
Tipo evento: Jornada **Ámbito geográfico:** Autonómica
Tipo de participación: Comité organizador **Intervención por:** Organizadora
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 26/03/2011
Fecha de finalización: 28/03/2011
Entidad organizadora: Facultad de Veterinaria **Tipo de entidad:** Centros y Estructuras Universitarios y Asimilados
Ciudad entidad organizadora: Cáceres, Extremadura, España
Con comité de admisión ext.: No
Forma de contribución: Artículo
Patricia Santofimia Castaño; Gines Maria Salido; Antonio González. "Efecto del antioxidante quercetina en las alteraciones en la homeostasis del calcio intracellular inducida por las proteínas CORE y NS5A del virus de la hepatitis C".

22 **Título del trabajo:** TRPCs regulate agonist-induced Ca2+ mobilization
Nombre del congreso: III Congreso de Red Española de Canales Iónicos
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia invitada **Intervención por:** Por invitación
Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 02/02/2011
Fecha de finalización: 02/04/2011
Entidad organizadora: Red Española de Canales Iónicos **Tipo de entidad:** CIBER
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Gines Maria Salido; Geoffrey Woodard; Jose Javier Lopez; Isaac Jardin; Juan Antonio Rosado. "TRPCs regulate agonist-induced Ca2+ mobilization".

23 **Título del trabajo:** Phosphorylation of STIM1 in tyrosine residues is required during the activation of SOCE in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Durham, North Eastern Scotland, Reino Unido
Fecha de celebración: 15/12/2010
Fecha de finalización: 17/12/2010
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si

Forma de contribución: Artículo
Esther Lopez; Alejandro Berna Erro; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "Phosphorylation of STIM1 in tyrosine residues is required during the activation of SOCE in human platelets". En: Proceedings of The Physiological Society. 21, pp. PC29 - PC29. Inner London (Reino Unido): IOP Publishing, 15/12/2010. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2021PC29>. ISSN 1749-6187

24 **Título del trabajo:** STIM1 is expressed in acidic Ca2+ stores in human platelets and associates with Orai1 and TRPC channels upon Ca2+ store depletion
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Durham, North Eastern Scotland, Reino Unido
Fecha de celebración: 15/12/2010
Fecha de finalización: 17/12/2010
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Natalia Dionisio; Hanene Zbidi; Isaac Jardin; Gines Maria Salido; Pedro Cosme Redondo; Juan Antonio Rosado. "STIM1 is expressed in acidic Ca2+ stores in human platelets and associates with Orai1 and TRPC channels upon Ca2+ store depletion". En: Proceedings of The Physiological Society. 21, pp. PC26 - PC26. Inner London (Reino Unido): IOP Publishing, 15/12/2010. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2021PC26>. ISSN 1749-6187

25 **Título del trabajo:** FK506-binding proteins regulate SOCE in human platelets by calcineurin-dependent and -independent pathways
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Durham, North Eastern Scotland, Reino Unido
Fecha de celebración: 15/12/2010
Fecha de finalización: 17/12/2010
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Reino Unido, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Esther Lopez; Gines Maria Salido; Juan Antonio Rosado; Pedro Cosme Redondo. "FK506-binding proteins regulate SOCE in human platelets by calcineurin-dependent and -independent pathways". En: Proceedings of The Physiological Society. 21, pp. PC20 - PC20. Inner London (Reino Unido): IOP Publishing, 15/12/2010. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2021PC20>. ISSN 1749-6187

26 **Título del trabajo:** DIFFERENTIAL EFFECT OF H2O2 ON [Ca2+] IN RAT HIPPOCAMPAL ASTROCYTES AND NEURONS IN CULTURE
Nombre del congreso: CURRENT TRENDS IN BIOMEDICINE: ION CHANNELS AND DISEASES OF THE NERVOUS SYSTEM
Tipo evento: Workshop **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster
Ciudad de celebración: Baeza, España
Fecha de celebración: 02/11/2010
Entidad organizadora: Universidad Internacional de Andalucía **Tipo de entidad:** Universidad

Forma de contribución: Artículo
Antonio González; Patricia SANTOFIMIA CASTAÑO; Ginés María Salido.

27 **Título del trabajo:** H2O2 INDUCES A CONCENTRATION-DEPENDENT INCREASE IN [Ca2+] IN RAT HIPPOCAMPAL NEURONS IN CULTURE
Nombre del congreso: CURRENT TRENDS IN BIOMEDICINE: ION CHANNELS AND DISEASES OF THE NERVOUS SYSTEM
Tipo evento: Workshop **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster
Ciudad de celebración: Baeza, España
Fecha de celebración: 02/11/2010
Entidad organizadora: Universidad Internacional de Andalucía **Tipo de entidad:** Universidad
Forma de contribución: Artículo
Antonio González; Patricia SANTOFIMIA CASTAÑO; Ginés María Salido.

28 **Título del trabajo:** Effect of an experimental treatment with cinnamtannin B-1 on hepatitis C virus replication in an in vitro model
Nombre del congreso: International Symposium on the Pathophysiology of Reactive Oxygen and Nitrogen Species
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Salamanca, Castilla y León, España
Fecha de celebración: 19/05/2010
Fecha de finalización: 21/05/2010
Entidad organizadora: FUNDACION GENERAL DE LA UNIVERSIDAD DE SALAMANCA
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Maria Victoria Garcia Mediavilla; Lima; Mauriz; Culebras; Juan Antonio Rosado; Majano; Gines Maria Salido; Javier Gonzalez Gallego; Sonia Sanchez Campos. "Effect of an experimental treatment with cinnamtannin B-1 on hepatitis C virus replication in an in vitro model".

29 **Título del trabajo:** The natural antioxidant cinnamtannin B-1 modulates cholecystokinin-evoked responses in mouse pancreatic acinar cells
Nombre del congreso: International Symposium on the pathophysiology of reactive oxygen and nitrogen species
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 19/05/2010
Fecha de finalización: 21/05/2010
Forma de contribución: Artículo
A del castillo Vaquero; R Rivera Barreno; Ginés María Salido; Antonio González. En: Book of Abstracts of the International Symposium on the pathophysiology of reactive oxygen and nitrogen species. pp. 32 - 32. 01/01/2010. ISBN 978-84-692-9284-6

30 **Título del trabajo:** Agonist-induced Ca2+ mobilization is regulated by a complex involving Orai1, hTRPC3 and the type I inositol 1,4,5-trisphosphate receptor
Nombre del congreso: Experimental Biology 2010
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Anaheim, Estados Unidos de América
Fecha de celebración: 24/04/2010

Fecha de finalización: 28/04/2010
Entidad organizadora: Federation of American Societies for Experimental Biology
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Estados Unidos de América
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Isaac Jardin; GEOFFREY WOODARD; Jose Javier Lopez; Gines Maria Salido; Juan Antonio Rosado. "Agonist-induced Ca2+ mobilization is regulated by a complex involving Orai1, hTRPC3 and the type I inositol 1,4,5-trisphosphate receptor". En: FASEB Journal. 24, pp. 869.2 - 869.2. (Estados Unidos de América): 24/04/2010. Disponible en Internet en: <http://www.fasebj.org/cgi/content/meeting_abstract/24/1_MeetingAbstracts/869.2?sid=f64664f5-1241-4124-ba90-d9afda29b73c>. ISSN 0892-6638

31 **Título del trabajo:** Lipid rafts determine association of Orai1, STIM1 and the TRPC1 and TRPC6 proteins
Nombre del congreso: Experimental Biology 2010
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Anaheim, Estados Unidos de América
Fecha de celebración: 24/04/2010
Fecha de finalización: 28/04/2010
Entidad organizadora: Federation of American Societies for Experimental Biology
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Estados Unidos de América
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Carmen Galan; Gines Maria Salido; Juan Antonio Rosado. "Lipid rafts determine association of Orai1, STIM1 and the TRPC1 and TRPC6 proteins". En: FASEB Journal. 24, pp. 481.2 - 481.2. (Estados Unidos de América): 24/04/2010. Disponible en Internet en: <http://www.fasebj.org/cgi/content/meeting_abstract/24/1_MeetingAbstracts/481.2?sid=e39de8f9-670e-4424-8036-70aead9b1fa0>. ISSN 0892-6638

32 **Título del trabajo:** Complejos ternarios TRPC-ORAI1-STIM1 en la entrada capacitativa de calcio (TRPC-STIM1-Orai1 ternary complex in capacitative calcium entry
Nombre del congreso: 16th Symposium on Ca2+-binding proteins and Ca2+ function in health and disease, XXIII Congreso de la Sociedad Latinoamericana de Ciencias Fisiológicas y II Congreso Iberoamericano de Ciencias Fisiológicas.
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Ponencia invitada
Intervención por: Por invitación
Ciudad de celebración: Pucon, Chile
Fecha de celebración: 16/11/2009
Fecha de finalización: 20/11/2009
Entidad organizadora: Sociedad Latinoamericana de Ciencias Fisiológicas
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Gines Maria Salido; Juan Antonio Rosado. "Complejos ternarios TRPC-ORAI1-STIM1 en la entrada capacitativa de calcio (TRPC-STIM1-Orai1 ternary complex in capacitative calcium entry". En: BIOLOGICAL RESEARCH. (Chile): Sociedad de Biologi´a de Chile, 16/11/2009. Disponible en Internet en: <http://www.cienciasfisiologicas.cl/resumenes2009.pdf>. ISSN 0717-6287

33 **Título del trabajo:** Asociación functional TRPC-ORAI-STIM en la entrada capacitativa de calcio
Nombre del congreso: II Congreso de Red Española de Canales Iónicos
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Por invitación

Ciudad de celebración: Valladolid, Castilla y León, España
Fecha de celebración: 15/10/2009
Fecha de finalización: 16/10/2009
Entidad organizadora: Red Española de Canales Iónicos **Tipo de entidad:** CIBER
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Juan Antonio Rosado; Gines Maria Salido. "Asociación functional TRPC-ORAI-STIM en la entrada capacitativa de calcio".

34 **Título del trabajo:** The intracelular Ca2+ store of HEK293 cells is not a homogeneous compartment
Nombre del congreso: II Congreso de Red Española de Canales Iónicos
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Por invitación
Ciudad de celebración: Valladolid, Castilla y León, España
Fecha de celebración: 15/10/2009
Fecha de finalización: 16/10/2009
Entidad organizadora: Red Española de Canales Iónicos **Tipo de entidad:** CIBER
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Francisco Aulestia; Rodriguez Garcia; Gines Maria Salido; Juan Antonio Rosado; Maria Teresa Alonso; Javier Garcia Sancho. "The intracelular Ca2+ store of HEK293 cells is not a homogeneous compartment".

35 **Título del trabajo:** Efecto del antioxidante quercetina en las alteraciones en la homeostasis del calcio intracellular inducida por las proteínas CORE y NS5A del virus de la hepatitis C
Nombre del congreso: I Jornadas Veterinarias de Estudiantes.
Tipo evento: Jornada
Tipo de participación: Ponencia
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 26/03/2009
Fecha de finalización: 28/03/2009
Entidad organizadora: Facultad de Veterinaria **Tipo de entidad:** Centros y Estructuras Universitarios y Asimilados
Ciudad entidad organizadora: Cáceres, Extremadura, España
Con comité de admisión ext.: No
Natalia Dionisio; Maria Victoria Garcia Mediavilla; Gines Maria Salido; Juan Antonio Rosado. "Efecto del antioxidante quercetina en las alteraciones en la homeostasis del calcio intracellular inducida por las proteínas CORE y NS5A del virus de la hepatitis C".

36 **Título del trabajo:** El etanol altera los mecanismos de transporte de calcio en células acinares pancreáticas
Nombre del congreso: I Jornadas Veterinarias de Estudiantes
Tipo evento: Jornada
Tipo de participación: Ponencia
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 26/03/2009
Fecha de finalización: 28/03/2009
Entidad organizadora: Facultad de Veterinaria **Tipo de entidad:** Centros y Estructuras Universitarios y Asimilados
Ciudad entidad organizadora: Cáceres, Extremadura, España
Con comité de admisión ext.: No
Angel del Castillo; L García; Gines Maria Salido; Antonio González. "Efecto del antioxidante quercetina en las alteraciones en la homeostasis del calcio intracellular inducida por las proteínas CORE y NS5A del virus de la hepatitis C".

37 **Título del trabajo:** PREPARACIÓN DE CULTIVOS PRIMARIOS DE ASTROCITOS Y SU UTILIZACIÓN PARA LA DETERMINACIÓN DE LA SECRECCIÓN DE GLUTAMATO
Nombre del congreso: I JORNADAS VETERINARIAS DE ESTUDIANTES
Tipo evento: Congreso **Ámbito geográfico:** Autonómica
Tipo de participación: Comité organizador **Intervención por:** Organizer
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 24/03/2009
Fecha de finalización: 26/03/2009
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Forma de contribución: Artículo
Patricia SANTOFIMIA Castaño; Ginés María Salido; Antonio González.

38 **Título del trabajo:** INVOLVEMENT OF HTRPC6 IN CAPACITATIVE AND NON-CAPACITATIVE CALCIUM ENTRY PATHWAYS
Nombre del congreso: XXXV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Isaac Jardin; Luis Gomez; Gines Maria Salido; Juan Antonio Rosado. "INVOLVEMENT OF HTRPC6 IN CAPACITATIVE AND NON-CAPACITATIVE CALCIUM ENTRY PATHWAYS". En: Acta Physiologica. 195 - 667, pp. P116 - P116. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73161, 17/02/2009. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

39 **Título del trabajo:** APOPTOSIS TRIGGERED BY ENDOPLASMATIC RETICULUM STRESS IS ASSOCIATED TO CASPASES 3, 8 AND 9 ACTIVATION IN HUMAN PLATELETS
Nombre del congreso: XXXV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "APOPTOSIS TRIGGERED BY ENDOPLASMATIC RETICULUM STRESS IS ASSOCIATED TO CASPASES 3, 8 AND 9 ACTIVATION IN HUMAN PLATELETS". En: Acta Physiologica. 195 - 667, pp. P118 - P118. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73163, 17/02/2009. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

40 **Título del trabajo:** Impairment of calcium homeostasis by ethanol in CCK-8-stimulated mouse pancreatic acinar cells
Nombre del congreso: XXXV Congreso de la Sociedad Española de Ciencias Fisiológicas (SECF)
Tipo evento: Congreso **Ámbito geográfico:** Nacional

Tipo de participación: Ponencia
Ciudad de celebración: Valencia, España
Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas (SECF)
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Antonio González; Jose Antonio Pariente; Ginés María Salido. En: Acta Physiologíca. 667 - Sup, pp. 71 - 71. Sociedad Española de Ciencias Fisiológicas (SECF), 01/01/2009.

41 **Título del trabajo:** CALCIUM ACCUMULATION IN THE ACIDIC STORES IS IMPORTANT FOR THROMBIN-INDUCED PLATELET AGGREGATION
Nombre del congreso: XXXV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Gines Maria Salido; Nidhal Ben Amor; Hanene Zbidi; Aicha Bouaziz; Isaac Jardin; Juan Manuel Hernandez Cruz; Aghleb Bartegi; Juan Antonio Rosado. "CALCIUM ACCUMULATION IN THE ACIDIC STORES IS IMPORTANT FOR THROMBIN-INDUCED PLATELET AGGREGATION". En: Acta Physiologica. 195 - 667, pp. P115 - P115. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73160, 17/02/2009. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

42 **Título del trabajo:** CALCIUM SIGNALLING IN HUMAN HEPATOCYTES TRANSFECTED WITH HEPATITIS C VIRUS NS5A AND CORE PROTEINS. EFFECT OF THE ANTIOXIDANT QUERCETIN
Nombre del congreso: XXXV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Maria Victoria Garcia Mediavilla; Sonia Sanchez Campos; Natalia Dionisio; Carmen Galan; Gines Maria Salido; Juan Antonio Rosado; Javier Gonzalez Gallego. "CALCIUM SIGNALLING IN HUMAN HEPATOCYTES TRANSFECTED WITH HEPATITIS C VIRUS NS5A AND CORE PROTEINS. EFFECT OF THE ANTIOXIDANT QUERCETIN". En: Acta Physiologica. 195 - 667, pp. P105 - P105. (Estados Unidos de América): John Wiley & Sons, 17/02/2009. Disponible en Internet en: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73150>. ISSN 1748-1716

43 **Título del trabajo:** RELEVANCE OF LIPID RAFTS IN STORE-OPERATED CALCIUM ENTRY
Nombre del congreso: XXXV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España

Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. "RELEVANCE OF LIPID RAFTS IN STORE-OPERATED CALCIUM ENTRY". En: Acta Physiologica. 195 - 667, pp. P117 - P117. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73162, 17/02/2009. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

44 **Título del trabajo:** ROLE OF CYCLOPHILIN IN INTRACELLULAR CALCIUM HOMEOSTASIS: THE ACTOR BEHIND THE SCENES
Nombre del congreso: XXXV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 17/02/2009
Fecha de finalización: 20/02/2009
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Rosado; Jose Antonio Pariente; Gines Maria Salido; Pedro Cosme Redondo. "ROLE OF CYCLOPHILIN IN INTRACELLULAR CALCIUM HOMEOSTASIS: THE ACTOR BEHIND THE SCENES". En: Acta Physiologica. 195 - 667, pp. P119 - P119. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=754&id=73164, 17/02/2009. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

45 **Título del trabajo:** Efecto antiagregante plaquetario de polifenoles aislados de madera de olivo en sujetos afectados de diabetes mellitus tipo 2
Nombre del congreso: II Congreso Internacional sobre Aceite de Oliva y Salud.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cordoba y Jaén, Andalucía, España
Fecha de celebración: 20/11/2008
Fecha de finalización: 22/11/2008
Entidad organizadora: Junta de Andalucía **Tipo de entidad:** organismo público
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Hanene Zbidi; Joaquin Altarejos; Mercedes Perez Bonilla; Sofia Salido; Juan Antonio Rosado; Gines Maria Salido. "Efecto antiagregante plaquetario de polifenoles aislados de madera de olivo en sujetos afectados de diabetes mellitus tipo 2".

46 **Título del trabajo:** Acidic Ca2+ store refilling by SERCA3 is regulated by STIM1 in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cambridge, Bedfordshire and Hertfordshire, Reino Unido
Fecha de celebración: 14/07/2008
Fecha de finalización: 17/07/2008
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si

Forma de contribución: Artículo
Isaac Jardin; Jose Javier Lopez; Regis Bobe; Jose Antonio Pariente; Jocelyne Enouf; Gines Maria Salido; Juan Antonio Rosado. "Acidic Ca2+ store refilling by SERCA3 is regulated by STIM1 in human platelets". En: J Physiol. 11, pp. PC130 - PC130. Inner London (Reino Unido): IOP Publishing, 14/07/2008. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC130>. ISSN 1749-6187

47 **Título del trabajo:** Activation and translocation of Bid and Bax to the mitochondria in response to thrombin in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cambridge, Bedfordshire and Hertfordshire, Reino Unido
Fecha de celebración: 14/07/2008
Fecha de finalización: 17/07/2008
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Activation and translocation of Bid and Bax to the mitochondria in response to thrombin in human platelets". En: J Physiol. 11, pp. PC131 - PC131. Inner London (Reino Unido): IOP Publishing, 14/07/2008. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC131>. ISSN 1749-6187

48 **Título del trabajo:** Oleuropein and cycloolivil from olive tree wood exert antiaggregant effects in platelets from patients with type 2 diabetes mellitus
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cambridge, Bedfordshire and Hertfordshire, Reino Unido
Fecha de celebración: 14/07/2008
Fecha de finalización: 17/07/2008
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido; Hanene Zbidi; Sofia Salido; Joaquin Altarejos; Aghleb Bartegi; Juan Antonio Rosado. "Oleuropein and cycloolivil from olive tree wood exert antiaggregant effects in platelets from patients with type 2 diabetes mellitus". En: J Physiol. 11, pp. PC129 - PC129. Inner London (Reino Unido): IOP Publishing, 14/07/2008. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC129>. ISSN 1749-6187

49 **Título del trabajo:** Role of immunophilin family of protein in calcium homeostasis in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cambridge, Bedfordshire and Hertfordshire, Reino Unido
Fecha de celebración: 14/07/2008
Fecha de finalización: 17/07/2008
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si

Forma de contribución: Artículo
Pedro Cosme Redondo; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "Role of immunophilin family of protein in calcium homeostasis in human platelets". En: J Physiol. 11, pp. PC138 - PC138. Inner London (Reino Unido): IOP Publishing, 14/07/2008. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC138>. ISSN 1749-6187

50 **Título del trabajo:** SNAP-25-dependent exocytosis regulates plasma membrane insertion of Orai1 and contributes to store-operated Ca2+ influx
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Cambridge, Bedfordshire and Hertfordshire, Reino Unido
Fecha de celebración: 14/07/2008
Fecha de finalización: 17/07/2008
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Rosado; Geoffrey Woodard; Gines Maria Salido. "SNAP-25-dependent exocytosis regulates plasma membrane insertion of Orai1 and contributes to store-operated Ca2+ influx". En: J Physiol. 11, pp. PC128 - PC128. Inner London (Reino Unido): IOP Publishing, 14/07/2008. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2011PC128>. ISSN 1749-6187

51 **Título del trabajo:** A role for SNAP-25 in thrombin-induced platelet aggregation
Nombre del congreso: XXII congress of International Society on Thrombosis and Haemotasis
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Geneva, Suiza
Fecha de celebración: 06/07/2007
Fecha de finalización: 12/07/2007
Entidad organizadora: International Society on Thrombosis and Haemotasis **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Carrboro, Estados Unidos de América
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Isaac Jardin; Pedro Cosme Redondo; Gines Maria Salido; Juan Antonio Rosado. "A role for SNAP-25 in thrombin-induced platelet aggregation". 5 - S2, pp. P-S-490 - P-S-490. (Estados Unidos de América): WILEY-BLACKWELL, 06/07/2007. Disponible en Internet en: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

52 **Título del trabajo:** Reactive oxygen species generation is required for thrombin-induced platelet apoptosis
Nombre del congreso: XXII congress of International Society on Thrombosis and Haemotasis
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Geneva, Suiza
Fecha de celebración: 06/07/2007
Fecha de finalización: 12/07/2007
Entidad organizadora: International Society on Thrombosis and Haemotasis **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Carrboro, Estados Unidos de América
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo

Jose Javier Lopez; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Reactive oxygen species generation is required for thrombin-induced platelet apoptosis". 5 - S2, pp. PW294 - PW294. (Estados Unidos de América): WILEY-BLACKWELL, 06/07/2007. Disponible en Internet en: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

53 **Título del trabajo:** Relevance of Ca2+ entry to platelet aggregation by activation of thrombin receptors
Nombre del congreso: XXII congress of International Society on Thrombosis and Haemotasis
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Geneva, Suiza
Fecha de celebración: 06/07/2007
Fecha de finalización: 12/07/2007
Entidad organizadora: International Society on Thrombosis and Haemotasis
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Carrboro, Estados Unidos de América
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Isaac Jardin; Pedro Cosme Redondo; Nidhal Ben Amor; Aghleb Bartegi; Gines Maria Salido; Juan Antonio Rosado. "Relevance of Ca2+ entry to platelet aggregation by activation of thrombin receptors". 5 - S2, pp. P-M-066 - P-M-066. (Estados Unidos de América): WILEY-BLACKWELL, 06/07/2007. Disponible en Internet en: <http://www.blackwellpublishing.com/isth2007/>. ISSN 1538-7933

54 **Título del trabajo:** Involvement of calcium in H2O2-induced apoptosis in rat pancreatic acinar AR42J cells
Nombre del congreso: XXXIV Congreso de la Sociedad Española de Ciencias Fisiológicas in collaboration with the The Physiological Society
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Valladolid, España
Fecha de celebración: 03/07/2007
Fecha de finalización: 07/07/2007
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas in collaboration with the The Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
S Morgado; I Bejarano; José Javier López; MP Granados; Ginés María Salido; Antonio González; Jose Antonio Pariente. 190 - 655, pp. 70 - 71. 01/01/2007.

55 **Título del trabajo:** Bid and Bax proteins participate in thrombin-induced human platelet apoptosis
Nombre del congreso: XXXIV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Valladolid, Castilla y León, España
Fecha de celebración: 03/07/2007
Fecha de finalización: 07/07/2007
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Jose Javier Lopez; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Bid and Bax proteins participate in thrombin-induced human platelet apoptosis". En: Acta Physiologica. 190 - 655, pp. P12 - P12. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=734&id=59944, 03/07/2007. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

56 **Título del trabajo:** STORE OPERATED CALCIUM ENTRY THROUGH THE HTRPC6 CHANNEL IS MODULATED BY PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE IN HUMAN PLATELETS
Nombre del congreso: XXXIV Congress of the Spanish society for physiological sciences
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Valladolid, Castilla y León, España
Fecha de celebración: 03/07/2007
Fecha de finalización: 07/07/2007
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Isaac Jardin; Pedro Cosme Redondo; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "STORE OPERATED CALCIUM ENTRY THROUGH THE HTRPC6 CHANNEL IS MODULATED BY PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE IN HUMAN PLATELETS". En: Acta Physiologica. 190 - 655, pp. P05 - P05. (Estados Unidos de América): http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=734&id=59937, 03/07/2007. Disponible en Internet en: <John Wiley & Sons>. ISSN 1748-1716

57 **Título del trabajo:** Ethanol stimulates glutamate secretion and mitochondrial ROS generation through Ca2+ mobilization and increases GFAP content in rat hippocampal astrocytes
Nombre del congreso: XXXIV Congreso de la Sociedad Española de Ciencias Fisiológicas in collaboration with the The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Valladolid, España
Fecha de celebración: 03/07/2007
Fecha de finalización: 07/07/2007
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas in collaboration with the The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Forma de contribución: Artículo
M Salazar; Jose Antonio Pariente; Ginés María Salido; Antonio González. 190 - 655, pp. 69 - 69. 01/01/2007.

58 **Título del trabajo:** Human platelets aggregation: role of microtubular network and tyrosine phosphorylation/dephosphorylation balance
Nombre del congreso: XXIIémes Entretiens Medico-Chirurgicaux de l´Amicale des Enseignants de la Faculté de Médecine de Monastir.
Tipo evento: Jornada **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Monastir, Túnez
Fecha de celebración: 08/06/2007
Fecha de finalización: 09/06/2007
Entidad organizadora: Amicale des Enseignants de la Faculté de Médecine de Monastir **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Monastir, Túnez
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Hanene Zbidi; Aicha Bouaziz; Nidhal Ben Amor; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "CALCIUM ACCUMULATION IN THE ACIDIC STORES IS IMPORTANT FOR THROMBIN-INDUCED PLATELET AGGREGATION".

59 **Título del trabajo:** Ethanol mobilizes Ca2+ and stimulates ROS generation by mitochondria in rat hippocampal astrocytes
Nombre del congreso: 17th European Society of Neurochemistry (ESN) Meeting – 3rd Conference on Advances in Molecular Mechanisms of Neurological Disorders
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 19/05/2007
Fecha de finalización: 22/05/2007
Entidad organizadora: Society of Neurochemistry (ESN)
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Antonio González; José Antonio Pariente; Ginés María Salido. En: Journal of Neurochemistry. 101 - 1, pp. 22 - 22. (Reino Unido): BLACKWELL PUBLISHING, 01/01/2007. ISSN 0022-3042

60 **Título del trabajo:** Ethanol stimulates glutamate secretion through Ca2+ mobilization and ROS generation in rat hippocampal astrocytes
Nombre del congreso: 17th European Society of Neurochemistry (ESN) Meeting – 3rd Conference on Advances in Molecular Mechanisms of Neurological Disorders
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 19/05/2007
Fecha de finalización: 22/05/2007
Entidad organizadora: Society of Neurochemistry (ESN)
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Miguel Salazar; José Antonio Pariente; Ginés María Salido; Antonio González. En: Journal of Neurochemistry. 101 - 1, pp. 22 - 22. (Reino Unido): BLACKWELL PUBLISHING, 01/01/2007. ISSN 0022-3042

61 **Título del trabajo:** H2O2 releases Ca2+ from both agonist- and thapsigargin-sensitive and insensitive intracellular stores and stimulates glutamate secretion in rat hippocampal astrocytes
Nombre del congreso: 17th European Society of Neurochemistry (ESN) Meeting – 3rd Conference on Advances in Molecular Mechanisms of Neurological Disorders
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 19/05/2007
Fecha de finalización: 22/05/2007
Entidad organizadora: Society of Neurochemistry (ESN)
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Antonio González; José Antonio Pariente; Ginés María Salido. En: Journal of Neurochemistry. 101 - 1, pp. 23 - 23. (Reino Unido): BLACKWELL PUBLISHING, 01/01/2007. ISSN 0022-3042

62 **Título del trabajo:** Proanthocyanidin from bay wood reduces abnormal intracellular Ca2+ homeostasis and platelet hyperaggregability in type 2 diabetes
Nombre del congreso: 18émes Journees Biologiques de L´Association Tunisienne des Sciences Biologiques (ATSB) et 2éme Congres International Association Maghrébine de Biotechnologie (AMB).
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Ponencia
Intervención por: Acceso por inscripción libre

Ciudad de celebración: Tunez, Túnez
Fecha de celebración: 25/03/2007
Fecha de finalización: 28/03/2007
Entidad organizadora: Association Maghrébine de Biotechnologie
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Aicha Bouaziz; Hanene Zbidi; Nidhal Ben Amor; Sofia Salido; Sanchez; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Proanthocyanidin from bay wood reduces abnormal intracellular Ca2+ homeostasis and platelet hyperaggregability in type 2 diabetes".

63 **Título del trabajo:** Tyrosine phosphorylation/dephosphorylation balance is involved in thrombin-evoked microtubular reorganisation in human platelets
Nombre del congreso: 18émes Journees Biologiques de L´Association Tunisienne des Sciences Biologiques (ATSB) et 2éme Congres International Association Maghrébine de Biotechnologie (AMB).
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Tunez, Túnez
Fecha de celebración: 25/03/2007
Fecha de finalización: 28/03/2007
Entidad organizadora: Association Maghrébine de Biotechnologie
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Hanene Zbidi; Aicha Bouaziz; Nidhal Ben Amor; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Tyrosine phosphorylation/dephosphorylation balance is involved in thrombin-evoked microtubular reorganisation in human platelets".

64 **Título del trabajo:** Antiaggregant effect of flavonoids from Arbutus unedo are mediated by their antioxidant activity and inhibition of Ca2+ mobilization and tyrosine phosphorylation
Nombre del congreso: Congrès International sur les Plantes Médicinales et Aromatiques (CIPMA 2007).
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Fes, Marruecos
Fecha de celebración: 22/03/2007
Fecha de finalización: 24/03/2007
Entidad organizadora: Université Sidi Mohamed Ben Abdellah **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Fes, Marruecos
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Mohammed El Haouari; Jose Javier Lopez; Aziz; Bnouham; Ziyyat; Legssyer; Juan Antonio Rosado; Gines Maria Salido; Mekhfi. "Antiaggregant effect of flavonoids from Arbutus unedo are mediated by their antioxidant activity and inhibition of Ca2+ mobilization and tyrosine phosphorylation". 22/03/2007.

65 **Título del trabajo:** Urtica dioica extracts reduces platelet hyperaggregability in type 2 diabetes mellitus by inhibition of oxidant production, Ca2+ mobilization and protein tyrosine phosphorylation
Nombre del congreso: Congrès International sur les Plantes Médicinales et Aromatiques (CIPMA 2007).
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Fes, Marruecos
Fecha de celebración: 22/03/2007
Fecha de finalización: 24/03/2007
Entidad organizadora: Université Sidi Mohamed Ben Abdellah **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Fes, Marruecos
Publicación en acta congreso: No **Con comité de admisión ext.:** Si

Mohammed El Haouari; Isaac Jardin; Aziz; Bnouham; Ziyyat; Legssyer; Juan Antonio Rosado; Gines Maria Salido; Mekhfi. "Urtica dioica extracts reduces platelet hyperaggregability in type 2 diabetes mellitus by inhibition of oxidant production, Ca2+ mobilization and protein tyrosine phosphorylation". 22/03/2007.

66 **Título del trabajo:** Action anti-apoptotique de la cinnamtanine B-1 extraite de Laurier sur les plaquettes humaines
Nombre del congreso: 4éme Symposium International de Monastir (Túnez) Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Monastir, Túnez
Fecha de celebración: 21/03/2007
Fecha de finalización: 24/03/2007
Entidad organizadora: Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer. **Tipo de entidad:** Asociaciones y Agrupaciones
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Aicha Bouaziz; Nidhal Ben Amor; Sofia Salido; Sanchez; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Action anti-apoptotique de la cinnamtanine B-1 extraite de Laurier sur les plaquettes humaines".

67 **Título del trabajo:** Activation des caspases 3 et 9 par la thrombine dans les plaquettes et leur translocation vers le cytosquelette des microfilaments d´actine
Nombre del congreso: 4éme Symposium International de Monastir (Túnez) Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Monastir, Túnez
Fecha de celebración: 21/03/2007
Fecha de finalización: 24/03/2007
Entidad organizadora: Association Tunisienne des Sciences Biologiques y Association pour la Recherche sur le Cancer. **Tipo de entidad:** Asociaciones y Agrupaciones
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Nidhal Ben Amor; Aicha Bouaziz; Hanene Zbidi; Gines Maria Salido; Juan Antonio Rosado; Aghleb Bartegi. "Activation des caspases 3 et 9 par la thrombine dans les plaquettes et leur translocation vers le cytosquelette des microfilaments d´actine".

68 **Título del trabajo:** Association of stromal interaction molecule 1 (STIM1) with human transient receptor potential channel 1 (hTRPC1) regulated by the filling state of the Ca2+ stores in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Londres, Inner London, Reino Unido
Fecha de celebración: 05/07/2006
Fecha de finalización: 07/07/2006
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Pedro Cosme Redondo; Juan Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "Association of stromal interaction molecule 1 (STIM1) with human transient receptor potential channel 1 (hTRPC1) regulated by the filling state of the Ca2+ stores in human platelets". En: Proceedings of The Physiological Society. 3, pp. PC23 -

PC23. Inner London (Reino Unido): IOP Publishing, 05/07/2006. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%203PC23>. ISSN 1749-6187

69 **Título del trabajo:** Functional characteristics of two types of calcium stores and SERCAs in human platelets
Nombre del congreso: European Platelet Group Congress
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Lodz, Lodzkie, Polonia
Fecha de celebración: 28/06/2006
Fecha de finalización: 30/06/2006
Entidad organizadora: European Platelet Group **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Alfonsas Juska; Isaac Jardin; Gines Maria Salido; Juan Antonio Rosado. "Functional characteristics of two types of calcium stores and SERCAs in human platelets".

70 **Título del trabajo:** 5,6-Epoxyeicosatrienoic acid is involved in Ca2+ entry by de novo conformational coupling in human Platelets
Nombre del congreso: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: München, Oberbayern, Alemania
Fecha de celebración: 26/03/2006
Fecha de finalización: 29/03/2006
Entidad organizadora: The Federation of European Physiological Societies **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Nidhal Ben Amor; Pedro Cosme Redondo; Aghleb Bartegi; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado. "5,6-Epoxyeicosatrienoic acid is involved in Ca2+ entry by de novo conformational coupling in human Platelets". En: Acta Physiologica. 186 - 650, pp. PT03A-5 - PT03A-5. (Estados Unidos de América): John Wiley & Sons, 26/03/2006. Disponible en Internet en: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60521>. ISSN 1748-1716

71 **Título del trabajo:** A role for PKC in the translocation of caspases 3 and 9 to the cytoskeleton
Nombre del congreso: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: München, Oberbayern, Alemania
Fecha de celebración: 26/03/2006
Fecha de finalización: 29/03/2006
Entidad organizadora: The Federation of European Physiological Societies **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Nidhal Ben Amor; Jose Antonio Pariente; Gines Maria Salido; Aghleb Bartegi; Juan Antonio Rosado. "A role for PKC in the translocation of caspases 3 and

9 to the cytoskeleton". En: Acta Physiologica. 186 - 650, pp. PT04A-1 - PT04A-1. (Estados Unidos de América): John Wiley & Sons, 26/03/2006. Disponible en Internet en: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60534>. ISSN 1748-1716

72 **Título del trabajo:** Non-apoptotic caspase-3 activation is necessary for cellular function
Nombre del congreso: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: München, Oberbayern, Alemania
Fecha de celebración: 26/03/2006
Fecha de finalización: 29/03/2006
Entidad organizadora: The Federation of European Physiological Societies **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Non-apoptotic caspase-3 activation is necessary for cellular function". En: Acta Physiologica. 186 - 650, pp. PT04P-2 - PT04P-2. (Estados Unidos de América): John Wiley & Sons, 26/03/2006. Disponible en Internet en: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60544>. ISSN 1748-1716

73 **Título del trabajo:** Platelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species
Nombre del congreso: Meeting of The Federation of European Physiological Societies and The German Society of Physiology (Deutsche Physiologische Gesellschaft)
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: München, Oberbayern, Alemania
Fecha de celebración: 26/03/2006
Fecha de finalización: 29/03/2006
Entidad organizadora: The Federation of European Physiological Societies **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Isaac Jardin; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Pariente; Juan Antonio Rosado. "Platelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species". En: Acta Physiologica. 186 - 650, pp. PW10P-4 - PW10P-4. (Estados Unidos de América): John Wiley & Sons, 26/03/2006. Disponible en Internet en: <http://www.blackwellpublishing.com/aphmeeting/abstract.asp?MeetingID=735&id=60810>. ISSN 1748-1716

74 **Título del trabajo:** Caspases 3 and 9 are translocated to the cytoskeleton and activated by thrombin in human platelets. Evidences for the involvement of PKC and the actin polymerisation
Nombre del congreso: Association Tunisienne des Sciences Biologiques
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Hammamet, Túnez
Fecha de celebración: 20/03/2006
Fecha de finalización: 23/03/2006

Entidad organizadora: Association Tunisienne des Sciences Biologiques
Publicación en acta congreso: No **Con comité de admisión ext.:** Si
Nidhal Ben Amor; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Rosado; Barbouche; Aghleb Bartegi. "Caspases 3 and 9 are translocated to the cytoskeleton and activated by thrombin in human platelets. Evidences for the involvement of PKC and the actin polymerisation".

75 **Título del trabajo:** Increased intracellular calcium mobilisation in platelets from patients with diabetes mellitus type 2
Nombre del congreso: 83rd Joint Meeting of The German Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Leipzig, Alemania
Fecha de celebración: 22/03/2005
Fecha de finalización: 24/03/2005
Entidad organizadora: The German Physiological Society
Ciudad entidad organizadora: Desconocido, Alemania
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Fernando Raul Saavedra; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Increased intracellular calcium mobilisation in platelets from patients with diabetes mellitus type 2". En: European Journal of Physiology. 447 - 1S, pp. S104 - S104. (Alemania): Springer-Verlag GmbH, Heidelberg, 10/02/2005. Disponible en Internet en: <http://download.springer.com/static/pdf/286/art%253A10.1007%252Fs00424-004-1272-7.pdf?auth66=1351687044_23a3e981711a8513903f4b865296f77a&ext=.pdf>. ISSN 1432-2013

76 **Título del trabajo:** SNARE proteins are involved in the activation of store-mediated calcium entry
Nombre del congreso: 83rd Joint Meeting of The German Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Leipzig, Alemania
Fecha de celebración: 22/03/2005
Fecha de finalización: 24/03/2005
Entidad organizadora: The German Physiological Society
Ciudad entidad organizadora: Desconocido, Alemania
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Pedro Cosme Redondo; Alan Harper; Matthew Harper; Gines Maria Salido; Jose Antonio Rosado; Stewart Sage; Juan Antonio Rosado. "SNARE proteins are involved in the activation of store-mediated calcium entry". En: European Journal of Physiology. 447 - 1S, pp. S126 - S126. (Alemania): Springer-Verlag GmbH, Heidelberg, 10/02/2005. Disponible en Internet en: <http://download.springer.com/static/pdf/246/art%253A10.1007%252Fs00424-004-1273-6.pdf?auth66=1351687653_0782d8b97ddcf72900ed4a0f68f7514e&ext=.pdf>. ISSN 1432-2013

77 **Título del trabajo:** Activation of Bruton´s tyrosine kinase is required for store-operated Ca2+ entry in human platelets
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS

Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Rosado; Nidhal Ben Amor; Pedro Cosme Redondo; Aghleb Bartegi; Gines Maria Salido; Jose Antonio Pariente. "Activation of Bruton´s tyrosine kinase is required for store-operated Ca2+ entry in human platelets". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 76 - 76. (Holanda): Springer Netherlands, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

78 **Título del trabajo:** Agonists regulate Ca2+ signalling by different second messengers in human platelets
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Rosado; Jose Javier Lopez; Pedro Cosme Redondo; Emilio Gomez Arteta; Jose Antonio Rosado; Gines Maria Salido. "Agonists regulate Ca2+ signalling by different second messengers in human platelets and elevated stored-operated calcium entry in platelet from patients with diabetes mellitus type 2". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 251 - 251. (Holanda): Springer Netherlands,, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

79 **Título del trabajo:** Calcium mobilisation and tyrosine kinase pp60src hyperactivity are modulated by hyperglycemia in platelets from Diabetes Mellitus type-2 patients
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Fernando Raul Saavedra; Pedro Cosme Redondo; Juan Manuel Hernandez Cruz; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Calcium mobilisation and tyrosine kinase pp60src hyperactivity are modulated by hyperglycemia in platelets from Diabetes Mellitus type-2 patients". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 266 - 266. (Holanda): Springer Netherlands,, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

80 **Título del trabajo:** Reactive oxygen species are responsible for the high cytosolic calcium concentration and elevated stored-operated calcium entry in platelet from patients with diabetes mellitus type 2
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005

Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Isaac Jardin; Pedro Cosme Redondo; Jose Javier Lopez; Juan Manuel Hernandez Cruz; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Reactive oxygen species are responsible for the high cytosolic calcium concentration and elevated stored-operated calcium entry in platelet from patients with diabetes mellitus type 2". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 256 - 256. (Holanda): Springer Netherlands,, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

81 **Título del trabajo:** Differential Ca2+release by physiological agonist from separate compartments in human plateletstelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Javier Lopez; Pedro Cosme Redondo; Gines Maria Salido; Jose Antonio Rosado; Juan Antonio Rosado. "Differential Ca2+release by physiological agonist from separate compartments in human plateletstelet PMCA activity in patients with non-insulin dependent diabetes mellitus is reduced by endogenously genereated reactive oxygen species". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 257 - 257. (Holanda): Springer Netherlands,, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

82 **Título del trabajo:** Dual effects of H2O2 on calcium mobilisation in mouse pancreatic acinar cells
Nombre del congreso: XXXIII Congreso de la Sociedad Española de Ciencias Fisiológicas. International joint meeting of Physiology Spanish Society of Physiological Sciences, The Physiological Society (UK & Eire) and Dutch Society of Physiology
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas, Physiological Society (UK & Eire) and Dutch Society of Physiology **Tipo de entidad:** Asociaciones y Agrupaciones
Forma de contribución: Artículo
María P. Granados; Ginés María Salido; Antonio González; José A. Pariente. En: Journal of Physiology and Biochemistry. 61 - 1, pp. 265 - 265. (España): SERVICIO PUBLICACIONES UNIVERSIDAD NAVARRA, 01/01/2005. ISSN 1138-7548

83 **Título del trabajo:** Dynamics of SERCA and PMCA activities depend on the initial rate of calcium influx from the stores in human platelets
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE

Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Alfonsas Juska; Pedro Cosme Redondo; Gines Maria Salido; Juan Antonio Rosado. "Dynamics of SERCA and PMCA activities depend on the initial rate of calcium influx from the stores in human platelets". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 251 - 252. (Holanda): Springer Netherlands, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

84 **Título del trabajo:** Effects of hydrogen peroxide on secretagogue-evoked amylase release from mouse pancreatic acinar cells
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Ana Isabel Lajas; Silvia Figuero; Juan Antonio Rosado; Gines Maria Salido; Jose Antonio Rosado. "Effects of hydrogen peroxide on secretagogue-evoked amylase release from mouse pancreatic acinar cells". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 267 - 267. (Holanda): Springer Netherlands, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

85 **Título del trabajo:** H2O2 mobilizes Ca2+ from intracellular stores in rat hippocampal astrocytes
Nombre del congreso: XXXIII Meeting of The Spanish society of Physiological Sciences.
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Sevilla, Andalucía, España
Fecha de celebración: 10/02/2005
Fecha de finalización: 13/02/2005
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: Desconocido,
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Antonio González; María P Granados; José A Pariente; Ginés María Salido. "Calcium mobilisation and tyrosine kinase pp60src hyperactivity are modulated by hyperglycemia in platelets from Diabetes Mellitus type-2 patients". En: Journal of Physiology and Biochemestry. 61 - 1, pp. 167 - 167. (Holanda): Springer Netherlands,, 10/02/2005. Disponible en Internet en: <http://link.springer.com/article/10.1007%2FBF03166724>. ISSN 1877-8755

86 **Título del trabajo:** Two Pathways for store-mediated Calcium entry differentially modulated by the actyn cytoskeleton in human platelets
Nombre del congreso: Meeting of The European Platelet Group

Tipo evento: Congreso
Ámbito geográfico: Unión Europea
Tipo de participación: Ponencia
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Erfut, Thüringen, Alemania
Fecha de celebración: 20/06/2004
Fecha de finalización: 23/06/2004
Entidad organizadora: The European Platelet Group
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo

Juan Antonio Rosado; Jose Javier Lopez; Alan Harper; Matthew Harper; Pedro Cosme Redondo; Jose Antonio Pariente; Gines Maria Salido; Stewart Sage. "Two Pathways for store-mediated Calcium entry differentially modulated by the actyn cytoskeleton in human platelets". En: Platelets. 15 - 8, pp. 512 - 513. (Reino Unido): TAYLOR & FRANCIS LTD, 20/06/2004. Disponible en Internet en: <http://informahealthcare.com/doi/pdf/10.1080/09537100412331272587>. ISSN 0953-7104

87 **Título del trabajo:** CCK-8 induces ROS generation in mouse pancreatic acinar cells
Nombre del congreso: 83rd Annual Meeting Deutsche Physiologische Gesellschaft
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Leipzig, Alemania
Fecha de celebración: 14/05/2004
Fecha de finalización: 17/05/2004
Entidad organizadora: Deutsche Physiologische Gesellschaft
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Alemania
Forma de contribución: Artículo

María P Granados; A Schmid; Ginés María Salido; José Antonio Pariente; Antonio González. En: PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY. 447, pp. S77 - S77. (Alemania): SPRINGER, 01/01/2004. ISSN 0031-6768

88 **Título del trabajo:** Changes in mitochondrial activity in response to H2O2 in isolated mouse pancreatic acinar cells
Nombre del congreso: 83rd Annual Meeting Deutsche Physiologische Gesellschaft
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Leipzig, Alemania
Fecha de celebración: 14/05/2004
Fecha de finalización: 17/05/2004
Entidad organizadora: Deutsche Physiologische Gesellschaft
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Alemania
Forma de contribución: Artículo

Antonio González; María P Granados; Ginés María Salido; José Antonio Pariente. En: PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY. 447, pp. S78 - S78. (Alemania): SPRINGER, 01/01/2004. ISSN 0031-6768

89 **Título del trabajo:** Cholecystokinin-evoked changes in mitochondrial activity in isolated mouse pancreatic acinar cells
Nombre del congreso: 83rd Annual Meeting Deutsche Physiologische Gesellschaft
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Leipzig, Alemania
Fecha de celebración: 14/05/2004

Fecha de finalización: 17/05/2004
Entidad organizadora: Deutsche Physiologische Gesellschaft
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Alemania
Forma de contribución: Artículo
Antonio González; María P Granados; Ginés María Salido; José Antonio Pariente. En: PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY. 447, pp. S77 - S77. (Alemania): SPRINGER, 01/01/2004. ISSN 0031-6768

90 **Título del trabajo:** H2O2 induces changes in mitochondrial activity in isolated mouse pancreatic acinar cells
Nombre del congreso: XXXII Congress of the Spanish Society of Physiological Sciences in conjuntion with the British Physiological Society
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Leipzig, Alemania
Fecha de celebración: 14/05/2004
Fecha de finalización: 17/05/2004
Entidad organizadora: Spanish Society of Physiological Sciences and the British Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Puerto de la Cruz, Canarias, España
Forma de contribución: Artículo
Antonio González; María P Granados; Ginés María Salido; José Antonio Pariente. En: Journal of Physiology. 548, pp. 9 - 9. (Reino Unido): Wiley-BLACKWELL PUBLISHING LTD, 01/01/2003. ISSN 0022-3751

91 **Título del trabajo:** Hydrogen peroxide generation is required for store-mediated Ca2+ entry by the activation of pp60src in human platelets
Nombre del congreso: Main Meeting of The Physiological Society
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Cambridge, Northern Ireland, Reino Unido
Fecha de celebración: 17/12/2003
Fecha de finalización: 19/12/2003
Entidad organizadora: The Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Londres, Inner London, Reino Unido
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Pedro Cosme Redondo; Stewart Sage; Gines Maria Salido; Juan Antonio Pariente; Juan Antonio Rosado. "Hydrogen peroxide generation is required for store-mediated Ca2+ entry by the activation of pp60src in human platelets". En: J Physiol. 555P, pp. PC47 - PC47. Inner London (Reino Unido): IOP Publishing, 17/12/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20555PPC47>. ISSN 1749-6187

92 **Título del trabajo:** Hydrogen peroxide induces release of calcium from agonist-sensitive and mitochondrial calcium stores in human platelets
Nombre del congreso: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Puerto de La Cruz, Canarias, España
Fecha de celebración: 13/02/2003
Fecha de finalización: 17/02/2003

Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Pedro Cosme Redondo; Antonio º Asuncion; Gines Maria Salido; Juan Antonio Rosado; Juan Antonio Pariente. "Hydrogen peroxide induces release of calcium from agonist-sensitive and mitochondrial calcium stores in human platelets". En: J Physiol. 548P, pp. P17 - P17. Inner London (Reino Unido): IOP Publishing, 13/02/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP17>. ISSN 1749-6187

93 **Título del trabajo:** Hydrogen peroxide reduces store-mediated Ca2+ entry and the plasma membrane calcium ATPase activity in human platelets
Nombre del congreso: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Puerto de La Cruz, Canarias, España
Fecha de celebración: 13/02/2003
Fecha de finalización: 17/02/2003
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Pariente; Pedro Cosme Redondo; Gines Maria Salido; Juan Antonio Rosado. "Hydrogen peroxide reduces store-mediated Ca2+ entry and the plasma membrane calcium ATPase activity in human platelets". En: J Physiol. 548P, pp. P19 - P19. Inner London (Reino Unido): IOP Publishing, 13/02/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP19>. ISSN 1749-6187

94 **Título del trabajo:** Involvement of p60src in the activation of store-mediated Ca2+ entry in mouse pancreatic acinar cells
Nombre del congreso: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Puerto de La Cruz, Canarias, España
Fecha de celebración: 13/02/2003
Fecha de finalización: 17/02/2003
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Rosado; Pedro Cosme Redondo; Ana Lajas; Antonio Gonzalez; Gines Maria Salido; Juan Antonio Pariente. "Involvement of p60src in the activation of store-mediated Ca2+ entry in mouse pancreatic acinar cells". En: J Physiol. 548P, pp. P22 - P22. Inner London (Reino Unido): IOP Publishing, 13/02/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP22>. ISSN 1749-6187

95 **Título del trabajo:** Effect of cholecystokinin on mitochondrial activity in isolated mouse pancreatic acinar cells
Nombre del congreso: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Puerto de La Cruz, Canarias, España
Fecha de celebración: 13/02/2003
Fecha de finalización: 17/02/2003
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS **Tipo de entidad:** Asociaciones y Agrupaciones

Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Antonio Gonzalez; Gines Maria Salido; Juan Antonio Pariente. "Hydrogen peroxide reduces store-mediated Ca2+ entry and the plasma membrane calcium ATPase activity in human platelets". En: J Physiol. 548P, pp. 3 - 4. Inner London (Reino Unido): IOP Publishing, 13/02/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP19>. ISSN 1749-6187

96 **Título del trabajo:** Evidence for the activation of store-mediated Ca2+ entry by a secretion-like coupling mechanism in mouse pancreatic acinar cells
Nombre del congreso: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Puerto de La Cruz, Canarias, España
Fecha de celebración: 13/02/2003
Fecha de finalización: 17/02/2003
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Rosado; Pedro Cosme Redondo; Antonio Gonzalez; Gines Maria Salido; Juan Antonio Pariente. "Evidence for the activation of store-mediated Ca2+ entry by a secretion-like coupling mechanism in mouse pancreatic acinar cells". En: J Physiol. 548P, pp. P18 - P18. Inner London (Reino Unido): IOP Publishing, 13/02/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP18>. ISSN 1749-6187

97 **Título del trabajo:** H2O2 induces changes in mitochondrial activity in isolated mouse pancreatic acinar cells
Nombre del congreso: XXXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Puerto de La Cruz, Canarias, España
Fecha de celebración: 13/02/2003
Fecha de finalización: 17/02/2003
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS **Tipo de entidad:** Asociaciones y Agrupaciones
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Antonio Gonzalez; María P Granados; Gines Maria Salido; Juan Antonio Pariente. "Hydrogen peroxide reduces store-mediated Ca2+ entry and the plasma membrane calcium ATPase activity in human platelets". En: J Physiol. 548P, pp. P9 - P9. Inner London (Reino Unido): IOP Publishing, 13/02/2003. Disponible en Internet en: <http://www.physoc.org/proceedings/abstract/J%20Physiol%20548PP19>. ISSN 1749-6187

98 **Título del trabajo:** Reactive oxygen species modify CCK-evoked actin filament polymerisation and amylase secretion in mouse pancreatic acinar cells
Nombre del congreso: MAIN PHYSOC MEETING
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Tübingen, Alemania
Fecha de celebración: 16/03/2002
Fecha de finalización: 19/03/2002
Entidad organizadora: The Physiological Society
Ciudad entidad organizadora: London, Reino Unido
Forma de contribución: Artículo

Antonio González; Juan Antonio Rosado; Ginés María Salido; José A. Pariente. En: European Journal of Physiology. 443 - S, pp. S326 - S326. (Reino Unido): CAMBRIDGE UNIV PRESS, 01/01/2002. ISSN 0022-3751

99 **Título del trabajo:** Generación de especies reactivas de oxígeno y Ca2+ intracelular en células acinares pancreáticas de ratón
Nombre del congreso: III Congreso de la Federación Española de Sociedades de Biología Experimental y XXXI Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster
Ciudad de celebración: Alicante, España
Fecha de celebración: 01/01/2000
Fecha de finalización: 01/01/2000
Antonio González; AL Martín; Ginés María Salido; José Antonio Parienet.

100 **Título del trabajo:** Differential involvement of the small GTP-binding protein Rho in amylase secretion evoked by the occupation of CCKA and M-3 muscarinic receptors in rat pancreatic acinar cells
Nombre del congreso: MAIN PHYSOC MEETING
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia
Fecha de celebración: 15/12/1997
Fecha de finalización: 17/12/1997
Entidad organizadora: The Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Cambridge, Reino Unido
Forma de contribución: Artículo
Juan Antonio Rosado; LJ Garcia; J Singh; Ginés María Salido. En: JOURNAL OF PHYSIOLOGY-LONDON. 506P - SI, pp. 127P - 128P. (Reino Unido): CAMBRIDGE UNIVERSITY PRESS, 01/02/1998. ISSN 0022-3751

101 **Título del trabajo:** Utilización de la técnica del Western Blotting para la determinación de la fosforilación de proteínas en residuos de tirosina en acinos pancreáticos
Nombre del congreso: VI Congreso Nacional de la Sociedad Española de Experimentación Animal
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Lugo, España
Fecha de celebración: 13/11/1997
Fecha de finalización: 15/11/1997
Entidad organizadora: Sociedad Española de Experimentación Animal **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Forma de contribución: Artículos en prensa
Ginés María Salido; Juan Antonio Rosado; Jose Antonio Tapia; Cristina Camello. En: Revista de experimentación animal. 8 - 1/2, pp. P115 - P115. (España): Sociedad Española de Experimentación Animal, 01/01/1997. ISSN 1130-2739

102 **Título del trabajo:** Calcium signalling and intracelular pH in single pancreatic acinar cells
Nombre del congreso: International joint meeting of Physiology. Sociedad Española de Ciencias Fisiológicas & the American Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Málaga, España
Fecha de celebración: 04/02/1997

Fecha de finalización: 07/02/1997
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Forma de contribución: Artículo
José Antonio Pariente; Antonio González; Pedro J Camello; Ginés María Salido. En: Journal of Physiology and Biochemistry. 53 - 1, pp. P3 - P18. (España): REV ESPANOLA FISIOLOGIA, 01/01/1997. ISSN 1138-7548

103 **Título del trabajo:** Relationship between intracellular pH and calcium signalling in single pancreatic acinar cells
Nombre del congreso: International Molecular and Cell Physiology Conference on Ion Transport and Regulation of Cellular Function
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Liverpool, Reino Unido
Fecha de celebración: 01/01/1997
Fecha de finalización: 01/01/1997
Ciudad entidad organizadora: España
Antonio González; Pedro J Camello; José Antonio Pariente; Ginés María Salido.

104 **Título del trabajo:** Digital microfluorimetry for intracellular pH in exocrine pancreatic cells
Nombre del congreso: On-Line Monitoring of Intracellular Messengers. Satellite Workshop of EUROTOX ´96
Tipo evento: Workshop **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Alicante, España
Fecha de celebración: 01/06/1996
Fecha de finalización: 01/06/1996
Entidad organizadora: EUROTOX
Ciudad entidad organizadora: España
Antonio González; Pedro J Camello; José Antonio Pariente; Ginés María Salido.

105 **Título del trabajo:** Histamine and stimulus-secretion pathways in isolated guinea-pig pancreatic acinar cells
Nombre del congreso: Calcium mediated secretagogues and intracellular pH in pancreatic acinar cells
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia **Intervención por:** Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 02/10/1995
Fecha de finalización: 05/10/1995
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas con la Physiological Society **Tipo de entidad:** Asociaciones y Agrupaciones
Forma de contribución: Artículo
Antonio González; Ginés María Salido; Jose Antonio Pariente; Pedro J Camello; LJ Garcia. En: JOURNAL OF PHYSIOLOGY-LONDON. 493P, pp. 152S - 152S. (Reino Unido): CAMBRIDGE UNIV PRESS, 01/05/1996. ISSN 0022-3751

106 **Título del trabajo:** Histamine and stimulus-secretion pathways in isolated guinea-pig pancreatic acinar cells
Nombre del congreso: 27 Congreso de la Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Acceso por inscripción libre

Ciudad de celebración: Salamanca, España
Fecha de celebración: 02/10/1995
Fecha de finalización: 05/10/1995
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Jose Antonio Pariente; Cristina Camello; Antonio González; Pedro J Camello; Ginés María Salido; LJ Garcia. En: JOURNAL OF PHYSIOLOGY-LONDON. 493P, pp. 154S - 154S. (Reino Unido): CAMBRIDGE UNIV PRESS, 01/05/1996. ISSN 0022-3751

107 **Título del trabajo:** Analysis of trypsinogen secretion from pancreatic segments by an on-line method
Nombre del congreso: 27 Congreso de la Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 02/10/1995
Fecha de finalización: 05/10/1995
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
José Antonio Tapia; Antonio González; Luís J García; Ginés María Salido. En: JOURNAL OF PHYSIOLOGY-LONDON. 493P, pp. 154S - 154S. (Reino Unido): CAMBRIDGE UNIV PRESS, 01/05/1996. ISSN 0022-3751

108 **Título del trabajo:** Modulation of pancreatic enzyme secretion by protein tyrosine kinases in response to CCK-8 and JMV-180
Nombre del congreso: 27 Congreso de la Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Salamanca, España
Fecha de celebración: 02/10/1995
Fecha de finalización: 05/10/1995
Entidad organizadora: Sociedad Española de Ciencias Fisiológicas con la Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
Juan Antonio Rosado; Ginés María Salido; LJ Garcia. En: JOURNAL OF PHYSIOLOGY-LONDON. 493P, pp. S154 - S155. (Reino Unido): CAMBRIDGE UNIV PRESS, 01/05/1996. ISSN 0022-3751

109 **Título del trabajo:** Effects of secretagogues on intracellular and extracellular magnesium concentrations in rat pancreatic acinar cells
Nombre del congreso: XXVII Meeting European Pancreatic Club
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Barcelona, España
Fecha de celebración: 01/06/1995
Fecha de finalización: 01/07/1995
Entidad organizadora: European Pancreatic Club
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Forma de contribución: Artículo

Antonio González; José Antonio Pariente; Ginés María Salido; DM Wisdom; J Singh. En: Digestion. 56 - 4, pp. 33 - 34. (Suiza): Karger, 01/01/1995. Disponible en Internet en: <http://content.karger.com/ProdukteDB/produkte.asp?Aktion=ShowEachType&ProduktNr=222917>. ISBN 978-3-8055-6200-3

110 **Título del trabajo:** EFFECT OF HISTAMINE ON POTASSIUM RELEASE FROM THE ISOLATED GUINEA-PIG PANCREATIC SEGMENTS
Nombre del congreso: MAIN PHYSOC MEETING
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Ponencia
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Liverpool, Reino Unido
Fecha de celebración: 11/04/1994
Fecha de finalización: 13/04/1994
Entidad organizadora: The Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Forma de contribución: Artículo
LJ García; Juan Antonio Rosado; José Antonio Tapia; Ginés María Salido. En: JOURNAL OF PHYSIOLOGY-LONDON. 477P, pp. P70 - P70. (Reino Unido): CAMBRIDGE UNI PRESS, 01/06/1994. ISSN 0022-3751

111 **Título del trabajo:** Effects of different secretagogues on magnesium mobilization in isolated rat pancreatic acinar cells
Nombre del congreso: British Physiological Society Meeting
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Póster
Intervención por: Acceso por inscripción libre
Ciudad de celebración: Newcastle upon Tyne, Reino Unido
Fecha de celebración: 01/01/1994
Fecha de finalización: 01/01/1994
Entidad organizadora: British Physiological Society
Tipo de entidad: Asociaciones y Agrupaciones
Ciudad entidad organizadora: Reino Unido
Forma de contribución: Artículo
Antonio González; José Antonio Pariente; Ginés María Salido; J Singh; DM Wisdom. En: Journal of Physiology. 482 - 4, pp. 33 - 34. (Reino Unido): British Physiological Society, 01/01/1995. Disponible en Internet en: <http://jp.physoc.org/content/482/Pt_3.toc>. ISSN 0022-3751

112 **Título del trabajo:** Fisiología del eje hipotalamo-hipofisario-testicular
Nombre del congreso: IV Congreso de la Sociedad Extremeña de Endocrinología y Nutrición y Asociación Española de andrología
Tipo evento: Congreso
Ámbito geográfico: Internacional no UE
Tipo de participación: Ponencia invitada
Intervención por: Por invitación
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 25/10/1990
Fecha de finalización: 27/10/1990
Entidad organizadora: Sociedad extremeña de Endocrinología y nutrición
Tipo de entidad: Asociaciones y Agrupaciones
Publicación en acta congreso: Si
Con comité de admisión ext.: Si
Forma de contribución: Artículo
Gines Maria Salido. "Fisiología del eje hipotalamo-hipofisario-testicular".

113 **Título del trabajo:** Modificación de la contracción vesicular "in vitro" por cimetropium
Nombre del congreso: XXIV Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso
Ámbito geográfico: Nacional
Tipo de participación: Póster
Intervención por: Revisión previa a la aceptación

Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 26/09/1990
Fecha de finalización: 29/09/1990
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Maria Jose Pozo; Gines Maria Salido; C Scarpignato; Juan Antonio Madrid. "Modificación de la contracción vesicular "in vitro" por cimetropium".

114 **Título del trabajo:** Modificación del crecimiento ponderal y patrones de ingesta de alimento en ratas sometidas a ciclos de luz-oscuridad de 21 horas
Nombre del congreso: XXIV Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 26/09/1990
Fecha de finalización: 29/09/1990
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
P Matas; Gines Maria Salido; Juan Antonio Madrid. "Modificación del crecimiento ponderal y patrones de ingesta de alimento en ratas sometidas a ciclos de luz-oscuridad de 21 horas".

115 **Título del trabajo:** Contracción del esfínter de Oddi canino por la CCK ¿Papel fisiológico?
Nombre del congreso: XXIV Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 26/09/1990
Fecha de finalización: 29/09/1990
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; Gines Maria Salido; Maria Jose Pozo. "Contracción del esfínter de Oddi canino por la CCK ¿Papel fisiológico?".

116 **Título del trabajo:** Efecto de agonistas y antagonista H1 y H2 sobre la secreción de amilasa en el pancreas aislado de cobaya
Nombre del congreso: XXIV Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 26/09/1990
Fecha de finalización: 29/09/1990
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Antonio Pariente; Jaypaul Singh; Gines Maria Salido. "Efecto de agonistas y antagonista H1 y H2 sobre la secreción de amilasa en el pancreas aislado de cobaya".

117 **Título del trabajo:** Efectos inhibidores del TPA en la secreción pancreática promovida por colecistocinina-octapéptido
Nombre del congreso: XXIV Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 26/09/1990
Fecha de finalización: 29/09/1990
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Pedro Javier Camello; Juan Antonio Madrid; Jaypaul Singh; Gines Maria Salido. "Efectos inhibidores del TPA en la secreción pancreática promovida por colecistocinina-octapéptido".

118 **Título del trabajo:** Estudio de la actividad fagocítica de la tenca (Tinca tinca)
Nombre del congreso: XXIV Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 26/09/1990
Fecha de finalización: 29/09/1990
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
ME Collazos; MI Pedrera; Eduardo Ortega; Gines Maria Salido; C Barriga. "Estudio de la actividad fagocítica de la tenca (Tinca tinca)".

119 **Título del trabajo:** Ritmos circadianos de parámetros fisiológicos en sujetos matutinos y vespertinos
Nombre del congreso: II Reunión Nacional de Cronobiología. Grupo Español de Cronobiología
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Santiago de Compostela, Galicia, España
Fecha de celebración: 06/12/1989
Fecha de finalización: 07/12/1989
Entidad organizadora: Grupo Español de Cronobiología **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
A Carrero; R Rojo; J Navarro; JM Ariño; Gines Maria Salido; Juan Antonio Madrid. "Ritmos circadianos de parámetros fisiológicos en sujetos matutinos y vespertinos".

120 **Título del trabajo:** Ritmos en la secrección pancreática exocrina: papel de la ingesta de alimento
Nombre del congreso: II Reunión Nacional de Cronobiología. Grupo Español de Cronobiología
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Santiago de Compostela, Galicia, España
Fecha de celebración: 06/12/1989
Fecha de finalización: 07/12/1989
Entidad organizadora: Grupo Español de Cronobiología **Tipo de entidad:** Asociaciones y Agrupaciones

Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; JM Ariño; Gines Maria Salido. "Ritmos en la secrección pancreática exocrina: papel de la ingesta de alimento".

121 **Título del trabajo:** Relaciones de la mtilidad gastrointestinal y biliar con la función pancreática exocrina
Nombre del congreso: Simposium internacional sobre motilidad gastrointestinal y función pancreática exocrina
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia invitada **Intervención por:** Por invitación
Ciudad de celebración: Alicante, Comunidad Valenciana, España
Fecha de celebración: 24/11/1989
Fecha de finalización: 24/11/1989
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido. "Motilidad del árbol biliar extrahepático".

122 **Título del trabajo:** Fisiología de la hormona de crecimiento
Nombre del congreso: III Congreso de la Sociedad Extremeña de Endocrinología y Nutrición y Asociación de Endocrinología y Diabetes de la Comunidad de Madrid
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia invitada **Intervención por:** Por invitación
Ciudad de celebración: Merida, Extremadura, España
Fecha de celebración: 27/10/1989
Fecha de finalización: 28/10/1989
Entidad organizadora: Sociedad extremeña de Endocrinología y nutrición **Tipo de entidad:** Asociaciones y Agrupaciones
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido. "Fisiología de la hormona de crecimiento".

123 **Título del trabajo:** Pancreatic juice in the in vivo rat preparation; interaction between phorbol ester, secretin and cholecystokinin
Nombre del congreso: XXI Meeting of the European Pancreatic Club
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Glasglow, Reino Unido
Fecha de celebración: 20/09/1989
Fecha de finalización: 23/09/1989
Entidad organizadora: European Pancreatic Club **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Reino Unido
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Leo Francis; Pedro Javier Camello; Juan Antonio Madrid; Gines Maria Salido; Jaypaul Singh. "Pancreatic juice in the in vivo rat preparation; interaction between phorbol ester, secretin and cholecystokinin".

124 **Título del trabajo:** Effects of experimental fluoride intake on lamb body weight development
Nombre del congreso: Simposium Internacional sobre crecimiento y reproducción
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación

Ciudad de celebración: Lugo, Galicia, España
Fecha de celebración: 27/06/1989
Fecha de finalización: 27/06/1989
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
María Antonia Chaso; MR Pascual; Juan Antonio Madrid; Gines Maria Salido. "Effects of experimental fluoride intake on lamb body weight development".

125 **Título del trabajo:** Ritmos en la ingesta de alimento de ratas androgenizadas neonatalmente
Nombre del congreso: Asociación Hispano-Francesa de Cooperación Técnica y Científica
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Sant Feliú de Guíxols, Cataluña, España
Fecha de celebración: 19/04/1989
Fecha de finalización: 21/04/1989
Entidad organizadora: Asociación Hispano-Francesa de Cooperación Técnica y Científica **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
C López; Jesús Ventanas; Juan Antonio Madrid; Gines Maria Salido. "Ritmos en la ingesta de alimento de ratas androgenizadas neonatalmente".

126 **Título del trabajo:** Ritmos ultradianos en la composición de la bilis vesicular del perro
Nombre del congreso: Asociación Hispano-Francesa de Cooperación Técnica y Científica
Tipo evento: Congreso **Ámbito geográfico:** Unión Europea
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Sant Feliú de Guíxols, Cataluña, España
Fecha de celebración: 19/04/1989
Fecha de finalización: 21/04/1989
Entidad organizadora: Asociación Hispano-Francesa de Cooperación Técnica y Científica **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Pedro Javier Camello; Gines Maria Salido; Juan Antonio Madrid. "Ritmos en la ingesta de alimento de ratas androgenizadas neonatalmente".

127 **Título del trabajo:** Inhibición parcial de los efectos colecistocinéticos de la CCK y CCK-8 por hexametonio
Nombre del congreso: XXIII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 08/12/1988
Fecha de finalización: 10/12/1988
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo

Maria Jose Pozo; Gines Maria Salido; Juan Antonio Madrid. "Inhibición parcial de los efectos colecistocinéticos de la CCK y CCK-8 por hexametonio".

128 **Título del trabajo:** Posible participación de los receptores H1 en la regulación de la secreción pancreática exocrina en el conejo
Nombre del congreso: XXIII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 08/12/1988
Fecha de finalización: 10/12/1988
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jose Antonio Pariente; Juan Antonio Madrid; Gines Maria Salido. "Posible participación de los receptores H1 en la regulación de la secreción pancreática exocrina en el conejo".

129 **Título del trabajo:** Respuesta contráctil de la vesícula biliar a la estimulación eléctrica transmural: efecto de la pirenzepina
Nombre del congreso: XXIII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 08/12/1988
Fecha de finalización: 10/12/1988
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
EJ Ruiz Jarillo; Maria Jose Pozo; Juan Antonio Madrid; Gines Maria Salido. "Respuesta contráctil de la vesícula biliar a la estimulación eléctrica transmural: efecto de la pirenzepina".

130 **Título del trabajo:** Ritmicidad de la secreción gástrico en perros
Nombre del congreso: XXIII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 08/12/1988
Fecha de finalización: 10/12/1988
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
JM Ariño; Jose Antonio Pariente; Gines Maria Salido; Juan Antonio Madrid. "Ritmicidad de la secreción gástrico en perros".

131 **Título del trabajo:** Efectos de la CCK sobre secreción pancreática del perro: independencia de los receptores colinérgicos
Nombre del congreso: XXIII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación

Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 08/12/1988
Fecha de finalización: 10/12/1988
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido; MZ Gil; Jose Antonio Pariente; Juan Antonio Madrid. "Efectos de la CCK sobre secreción pancreática del perro: independencia de los receptores colinérgicos".

132 **Título del trabajo:** Variación circadiana de los índices litogénicos de la bilis
Nombre del congreso: XXIII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Tenerife, Canarias, España
Fecha de celebración: 08/12/1988
Fecha de finalización: 10/12/1988
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; Pedro Javier Camello; Maria Jose Pozo; Gines Maria Salido. "Variación circadiana de los índices litogénicos de la bilis".

133 **Título del trabajo:** Gastrointestinal ulcers by indometacin administration
Nombre del congreso: IV Joint Meeting Veterinary Pathology
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Cordoba, Andalucía, España
Fecha de celebración: 17/09/1986
Fecha de finalización: 20/09/1986
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Antonio Gazquez; Gines Maria Salido; V Roncero; P Muñoz Arrebola; Juan Antonio Madrid. "Gastrointestinal ulcers by indometacin administration".

134 **Título del trabajo:** Ritmos circadianos en la actividad enzimática de la arginasa y glucosa-6-fosfato-deshidrogenasa en hígado de rata
Nombre del congreso: Congreso de la Sociedad Española de Bioquímica
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Zaragoza, Aragón, España
Fecha de celebración: 15/09/1986
Fecha de finalización: 18/09/1986
Entidad organizadora: Sociedad Española de Bioquímica **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo

Germán Soler; JM Bautista; Juan Antonio Madrid; Ginés Maria Salido. "Ritmos circadianos en la actividad enzimática de la arginasa y glucosa-6-fosfato-deshidrogenasa en hígado de rata".

135 **Título del trabajo:** Implicaciones terapeúticas de la alteración de los niveles plasmáticos de cortisol en algunos sujetos diabéticos
Nombre del congreso: Congreso de la Sociedad Española de Diabetes
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Salamanca, Castilla y León, España
Fecha de celebración: 18/06/1986
Fecha de finalización: 20/06/1986
Entidad organizadora: SOCIEDAD ESPAÑOLA DE DIABETES
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
L Enriquez Acosta; JM Hernandez Cruz; Juan Antonio Madrid; Gines Maria Salido. "Implicaciones terapeúticas de la alteración de los niveles plasmáticos de cortisol en algunos sujetos diabéticos".

136 **Título del trabajo:** La atropina modifica la respuesta presora de la vesícula biliar a la colecistoquinina
Nombre del congreso: XXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Badajoz, Extremadura, España
Fecha de celebración: 08/04/1986
Fecha de finalización: 11/04/1986
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Maria Jose Pozo; Pedro Javier Camello; Juan Antonio Madrid; Gines Maria Salido. "La atropina modifica la respuesta presora de la vesícula biliar a la colecistoquinina".

137 **Título del trabajo:** Modificación de la actividad mucosal de GGT por la ranitidina en ratas intactas y ulceradas
Nombre del congreso: XXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Badajoz, Extremadura, España
Fecha de celebración: 08/04/1986
Fecha de finalización: 11/04/1986
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
P Muñoz Arrebola; Juan Antonio Madrid; Gines Maria Salido; Emilio Martinez; Francisco Jose Mataix. "Modificación de la actividad mucosal de GGT por la ranitidina en ratas intactas y ulceradas".

138 **Título del trabajo:** Modificación de la fracción hidromineral de la secreción pancreática de conejo por administración de cimetidina
Nombre del congreso: XXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación

Ciudad de celebración: Badajoz, Extremadura, España
Fecha de celebración: 08/04/1986
Fecha de finalización: 11/04/1986
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
José Antonio Pariente; MZ Gil Camello; Gines Maria Salido; Juan Antonio Madrid. "Modificación de la fracción hidromineral de la secreción pancreática de conejo por administración de cimetidina".

139 **Título del trabajo:** Motilidad del árbol biliar extrahepático
Nombre del congreso: XXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Ponencia invitada **Intervención por:** Por invitación
Ciudad de celebración: Badajoz, Extremadura, España
Fecha de celebración: 08/04/1986
Fecha de finalización: 11/04/1986
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; Maria Jose Pozo; Gines Maria Salido. "Motilidad del árbol biliar extrahepático". 08/04/1986.

140 **Título del trabajo:** Alteraciones del comportamiento alimentario en ratas con úlceras gástricas y duodenales
Nombre del congreso: XXI Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oviedo, Principado de Asturias, España
Fecha de celebración: 12/12/1985
Fecha de finalización: 14/12/1985
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
P Muñoz Arrebola; Juan Antonio Madrid; Gines Maria Salido; Emilio Martínez De Victoria. "Alteraciones del comportamiento alimentario en ratas con úlceras gástricas y duodenales".

141 **Título del trabajo:** Modificaciones inducidas por un agente antimuscarínico sobre los efectos de la CCK en el árbol biliar extrahepático
Nombre del congreso: XXI Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oviedo, Principado de Asturias, España
Fecha de celebración: 12/12/1985
Fecha de finalización: 14/12/1985
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo

María José Pozo; Juan Antonio Madrid; Gines Maria Salido. "Modificaciones inducidas por un agente antimuscarínico sobre los efectos de la CCK en el árbol biliar extrahepático".

142 **Título del trabajo:** Efecto de la vagotomía sobre la secreción pancreática exocrina del pollo
Nombre del congreso: XXI Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oviedo, Principado de Asturias, España
Fecha de celebración: 12/12/1985
Fecha de finalización: 14/12/1985
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido; Juan Antonio Madrid; F Pedrosa; Maria Abdona Lopez. "Efecto de la vagotomía sobre la secreción pancreática exocrina del pollo".

143 **Título del trabajo:** Secreción pancreática exocrina en el perro durante 24 horas. Modificaciones inducidas por vagotomía
Nombre del congreso: XXI Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oviedo, Principado de Asturias, España
Fecha de celebración: 12/12/1985
Fecha de finalización: 14/12/1985
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Jesús Rodríguez Huertas; Juan Antonio Madrid; Gines Maria Salido; Mariano Mañas; F Acebal; Emilio Martinez. "Secreción pancreática exocrina en el perro durante 24 horas. Modificaciones inducidas por vagotomí".

144 **Título del trabajo:** Secreción pancreática exocrina en perros no anestesiados. Efectos compartivos en la vagotomía y de la administración de pirenzepina.
Nombre del congreso: XXI Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Oviedo, Principado de Asturias, España
Fecha de celebración: 12/12/1985
Fecha de finalización: 14/12/1985
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; Jesús Rodríguez Huertas; Gines Maria Salido; Mariano Mañas; Emilio Martinez. "Secreción pancreática exocrina en perros no anestesiados. Efectos compartivos en la vagotomía y de la administración de pirenzepina.".

145 **Título del trabajo:** Modificaciones de la secreción pancreática exocrina por bloqueo de los receptores H2 de la histamina
Nombre del congreso: XX Congreso de la Sociedad Española de Ciencias Fisiológicas

Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Murcia, Región de Murcia, España
Fecha de celebración: 16/03/1984
Fecha de finalización: 18/03/1984
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; J Rodriguez; Gines Maria Salido; Emilio Martínez; Francisco José Mataix. "Modificaciones de la secreción pancreática exocrina por bloqueo de los receptores H2 de la histamina".

146 **Título del trabajo:** Estudio de la secreción pancreática en prerrumiantes (Cabra granadina)
Nombre del congreso: XX Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Murcia, Región de Murcia, España
Fecha de celebración: 16/03/1984
Fecha de finalización: 18/03/1984
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
JA Naranjo; Gines Maria Salido; MD Isac. "Estudio de la secreción pancreática en prerrumiantes (Cabra granadina)".

147 **Título del trabajo:** Influencia de la pirenzepina sobre la evolución temporal de la respuesta biliar a la comida
Nombre del congreso: Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Málaga, Andalucía, España
Fecha de celebración: 09/12/1982
Fecha de finalización: 11/12/1982
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; Gines Maria Salido; Emilio Martínez; Francisco José Mataix. "Influencia de la pirenzepina sobre la evolución temporal de la respuesta biliar a la comida".

148 **Título del trabajo:** Análisis y consideraciones sobre fórmulas infantiles del mercado español y su adecuación a las recomendaciones de la ESPGAN
Nombre del congreso: Congreso de la Sociedad Española de Nutrición
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Granada, Andalucía, España
Fecha de celebración: 06/10/1982
Fecha de finalización: 09/10/1982
Entidad organizadora: SOCIEDAD ESPAÑOLA DE NUTRICION
Ciudad entidad organizadora: España

Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Francisco José Mataix; MJ Martí; MS Campos; A Gil; Gines Maria Salido. "Análisis y consideraciones sobre fórmulas infantiles del mercado español y su adecuación a las recomendaciones de la ESPGAN".

149 **Título del trabajo:** Aprovechamiento nutritivo de la grasa y la proteína en perros tratados con pirenzepina
Nombre del congreso: Congreso de la Sociedad Española de Nutrición
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Granada, Andalucía, España
Fecha de celebración: 06/10/1982
Fecha de finalización: 09/10/1982
Entidad organizadora: SOCIEDAD ESPAÑOLA DE NUTRICION
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Juan Antonio Madrid; P Muñoz Arrebola; Gines Maria Salido; Emilio Martinez De Victoria; Francisco José Mataix. "Aprovechamiento nutritivo de la grasa y la proteína en perros tratados con pirenzepina".

150 **Título del trabajo:** Utilización digestiva y metabólica de dos fórmulas infantiles
Nombre del congreso: Congreso de la Sociedad Española de Nutrición
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Granada, Andalucía, España
Fecha de celebración: 06/10/1982
Fecha de finalización: 09/10/1982
Entidad organizadora: SOCIEDAD ESPAÑOLA DE NUTRICION
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
A Sanz; Gines Maria Salido; MD Isac; Francisco José Mataix; S Zamora. "Utilización digestiva y metabólica de dos fórmulas infantiles".

151 **Título del trabajo:** Influencia de la pirenzepina sobre a secrección biliar y el aprovechamiento nutritivo de la grasa y la proteína en perros
Nombre del congreso: Congreso de la Sociedad Latinoamericana de Nutrición
Tipo evento: Congreso **Ámbito geográfico:** Internacional no UE
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Buenos Aires, Argentina
Fecha de celebración: 18/08/1982
Fecha de finalización: 20/08/1982
Entidad organizadora: Sociedad Latinoamericana de Nutrición
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Francisco José Mataix; Juan Antonio Madrid; Gines Maria Salido; Emilio Martinez De victoria; Mariano Mañas. "Influencia de la pirenzepina sobre a secrección biliar y el aprovechamiento nutritivo de la grasa y la proteína en perros".

152 **Título del trabajo:** Secrección pancreática en pollos no anestesiados en respuesta a la presentación de la comida
Nombre del congreso: Congreso de la Federación española de Sociedades de Biología Experimental

Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 06/07/1981
Fecha de finalización: 09/07/1981
Entidad organizadora: Federación española de Sociedades de Biología Experimental
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido; Juan Antonio Madrid; Alejandro Esteller; María Abdona Lopez. "Secrección pancreática en pollos no anestesiados en respuesta a la presentación de la comida".

153 **Título del trabajo:** Influencias hormonales y nerviosas sobre las secreciones biliar y pancreática en la oveja anestesiada
Nombre del congreso: Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 13/12/1979
Fecha de finalización: 15/12/1979
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
S Zamora; Gines Maria Salido; Alejandro Esteller; María Abdona Lopez. "Influencias hormonales y nerviosas sobre las secreciones biliar y pancreática en la oveja anestesiada".

154 **Título del trabajo:** Secreción de jugo pancreático en el pollo anestesiado: Nueva tecnica experimental y estudio de la secreción espontánea
Nombre del congreso: Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Valencia, Comunidad Valenciana, España
Fecha de celebración: 13/12/1979
Fecha de finalización: 15/12/1979
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España
Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido; Alejandro Esteller; María Abdona Lopez. "Secreción de jugo pancreático en el pollo anestesiado: Nueva tecnica experimental y estudio de la secreción espontánea".

155 **Título del trabajo:** Secreción pancreática exocrina en pollos conscientes
Nombre del congreso: Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo evento: Congreso **Ámbito geográfico:** Nacional
Tipo de participación: Póster **Intervención por:** Revisión previa a la aceptación
Ciudad de celebración: Bellaterra, Cataluña, España
Fecha de celebración: 14/12/1977
Fecha de finalización: 16/12/1977
Entidad organizadora: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Ciudad entidad organizadora: España

Publicación en acta congreso: Si **Con comité de admisión ext.:** Si
Forma de contribución: Artículo
Gines Maria Salido; Alejandro Esteller; María Abdona Lopez. "Secreción pancreática exocrina en pollos conscientes".

Trabajos presentados en jornadas, seminarios, talleres de trabajo y/o cursos nacionales o internacionales

1 **Título del trabajo:** Sepiolita en la alimentación de corderos
Nombre del evento: Reunión Científica monográfica sobre sepiolita
Tipo de evento: Jornada
Ciudad de celebración: Madrid, Comunidad de Madrid, España
Fecha de celebración: 11/02/1991
Entidad organizadora: Tolsa, S.A. **Tipo de entidad:** Entidad Empresarial
Ciudad entidad organizadora: Madrid, Comunidad de Madrid, España
Ginés Maria Salido.

2 **Título del trabajo:** Departamentos universitarios y becarios de investigación
Nombre del evento: Jornadas de reflexión sobre estudios de tercer ciclo y becarios de investigación
Tipo de evento: Jornada
Ciudad de celebración: Jarandilla de la Vera, Extremadura, España
Fecha de celebración: 24/01/1991
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

3 **Título del trabajo:** Importancia biológica de los elementos traza
Nombre del evento: Curso sobre Elementos traza en la alimentación humana
Tipo de evento: Curso
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 02/03/1990
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

4 **Título del trabajo:** Nutrición y Salud
Nombre del evento: Jornadas sobre Alimentación y Nutrición humana
Tipo de evento: Jornada
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 24/10/1989
Entidad organizadora: Asociación Virgen de Guadalupe **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

5 **Título del trabajo:** Regulación de la ingesta
Nombre del evento: Problemas actuales en Nutrición
Tipo de evento: Curso
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 31/01/1989

Entidad organizadora: Sociedad Extremeña de endocrinología y nutrición **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

6 **Título del trabajo:** Metabolismo del Obeso
Nombre del evento: Curso sobre la Obesidad
Tipo de evento: Curso
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 11/03/1988
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

7 **Título del trabajo:** Recientes avances en Fisiología Gastroinestinal
Nombre del evento: Seminario Permanente de Ciencias Veterinarias
Tipo de evento: Curso
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 03/06/1987
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

8 **Título del trabajo:** Digestión y Absorción de lípidos
Nombre del evento: Curso de Fisiopatología de los Lípidos
Tipo de evento: Curso
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 02/03/1987
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

9 **Título del trabajo:** Insulina: Características, tipos, secreción y acciones
Nombre del evento: Curso sobre Diabetes
Tipo de evento: Curso
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 11/05/1986
Entidad organizadora: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

10 **Título del trabajo:** Cronofisiología de la ingesta
Nombre del evento: Mesa Redonda sobre Cronobiología. Ritmos biológicos y sus implicaciones en patología y terapeutica
Tipo de evento: Taller de Trabajo
Ciudad de celebración: Cáceres, Extremadura, España
Fecha de celebración: 20/12/1985
Entidad organizadora: Sociedad Extremeña de endocrinología y nutrición **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad organizadora: Cáceres, Extremadura, España
Ginés Maria Salido.

Gestión de I+D+i y participación en comités científicos

Comités científicos, técnicos y/o asesores

1 **Título del comité:** Sociedad Española de Ciencias Fisiológicas
Ámbito geográfico: Nacional
Primaria (Cód. Unesco): 241100 - Fisiología humana
Ciudad de radicación: España
Ciudad entidad afiliación: España
Fecha de inicio: 19/02/2009

2 **Título del comité:** Sociedad Extremeña de endocrinología y nutrición
Ámbito geográfico: Nacional
Primaria (Cód. Unesco): 241100 - Fisiología humana
Ciudad de radicación: España
Ciudad entidad afiliación: España
Fecha de inicio: 19/02/2009

3 **Título del comité:** Federation of European Physiological Societies
Ámbito geográfico: Unión Europea
Primaria (Cód. Unesco): 241100 - Fisiología humana
Fecha de inicio: 01/10/2007

4 **Título del comité:** European Pancreatic Club
Ámbito geográfico: Unión Europea
Primaria (Cód. Unesco): 240300 - Bioquímica; 241010 - Fisiología humana
Fecha de inicio: 01/01/1989

5 **Título del comité:** European Society for Compartive Physiology and Biochemestry
Ámbito geográfico: Unión Europea
Primaria (Cód. Unesco): 240300 - Bioquímica; 241010 - Fisiología humana
Fecha de inicio: 01/01/1989

6 **Título del comité:** International Association of Pancreatology
Ámbito geográfico: Unión Europea
Primaria (Cód. Unesco): 240300 - Bioquímica; 241010 - Fisiología humana
Fecha de inicio: 01/01/1989

7 **Título del comité:** Physiological Society
Ámbito geográfico: Unión Europea
Primaria (Cód. Unesco): 240300 - Bioquímica; 241010 - Fisiología humana
Fecha de inicio: 01/01/1989

8 **Título del comité:** The nutrition Society
Ámbito geográfico: Unión Europea
Primaria (Cód. Unesco): 240300 - Bioquímica; 241010 - Fisiología humana
Fecha de inicio: 01/01/1989

Organización de actividades de I+D+i

1 **Título de la actividad:** XXX Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo de actividad: Congreso **Ámbito geográfico:** Unión Europea
Ciudad de celebración: Caceres, Extremadura, España
Entidad convocante: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Modo de participación: Presidente
Fecha de inicio-fin: 29/09/1999 - 02/10/1999 **Duración:** 3 días

2 **Título de la actividad:** XXIX Congreso de la Sociedad Española de Ciencias Fisiológicas/ Physiological Society U.K.
Tipo de actividad: Congreso **Ámbito geográfico:** Internacional no UE
Ciudad de celebración: Liverpool, Reino Unido
Entidad convocante: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Modo de participación: Secretario/a
Fecha de inicio-fin: 04/04/1998 - 07/04/1998 **Duración:** 3 días

3 **Título de la actividad:** XXVIII Congreso de la Sociedad Española de Ciencias Fisiológicas/American Physiological Society
Tipo de actividad: Congreso **Ámbito geográfico:** Internacional no UE
Ciudad de celebración: Malaga, Andalucía, España
Entidad convocante: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Modo de participación: Secretario/a
Fecha de inicio-fin: 04/04/1997 - 07/04/1997 **Duración:** 3 días

4 **Título de la actividad:** V Congreso de la Sociedad Española de Experimentación Animal
Tipo de actividad: Congreso **Ámbito geográfico:** Nacional
Ciudad de celebración: Cáceres, Extremadura, España
Entidad convocante: Sociedad Española de Experimentación Animal **Tipo de entidad:** Asociaciones y Agrupaciones
Ciudad entidad convocante: España
Modo de participación: Presidente
Fecha de inicio-fin: 14/12/1995 - 16/12/1995 **Duración:** 3 días

5 **Título de la actividad:** Curso de Elementos Traza en la alimentación humana
Tipo de actividad: Curso **Ámbito geográfico:** Nacional
Ciudad de celebración: Cáceres, Extremadura, España
Entidad convocante: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad convocante: Cáceres, Extremadura, España
Modo de participación: Organizador
Fecha de inicio-fin: 02/03/1990 - 30/03/1990 **Duración:** 28 días

6 **Título de la actividad:** Curso de Problemas Actuales en la Nutrición
Tipo de actividad: Curso **Ámbito geográfico:** Nacional
Ciudad de celebración: Cáceres, Extremadura, España
Entidad convocante: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad convocante: Cáceres, Extremadura, España
Modo de participación: Secretario/a
Fecha de inicio-fin: 31/01/1989 - 24/02/1989 **Duración:** 25 días

7 **Título de la actividad:** XXII Congreso de la Sociedad Española de Ciencias Fisiológicas
Tipo de actividad: Congreso **Ámbito geográfico:** Nacional
Ciudad de celebración: Badajoz, Extremadura, España
Entidad convocante: SOCIEDAD ESPAÑOLA DE CIENCIAS FISIOLOGICAS
Modo de participación: Presidente
Fecha de inicio-fin: 04/04/1987 - 07/04/1987 **Duración:** 3 días

8 **Título de la actividad:** Curso de Fisiopatología de los Lípidos
Tipo de actividad: Curso **Ámbito geográfico:** Nacional
Ciudad de celebración: Cáceres, Extremadura, España
Entidad convocante: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad convocante: Cáceres, Extremadura, España
Modo de participación: Organizador
Fecha de inicio-fin: 02/03/1987 - 03/04/1987 **Duración:** 32 días

9 **Título de la actividad:** Curso de Fisiología Cardiaca
Tipo de actividad: Curso **Ámbito geográfico:** Nacional
Ciudad de celebración: Cáceres, Extremadura, España
Entidad convocante: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad convocante: Cáceres, Extremadura, España
Modo de participación: Organizador
Fecha de inicio-fin: 02/09/1985 - 07/09/1985 **Duración:** 5 días

10 **Título de la actividad:** II Congreso de la Sociedad Española de Nutrición
Tipo de actividad: Congreso **Ámbito geográfico:** Nacional
Ciudad de celebración: Granada, Andalucía, España
Entidad convocante: SOCIEDAD ESPAÑOLA DE NUTRICION
Modo de participación: Organizador
Fecha de inicio-fin: 01/01/1982 - 01/01/1982

Evaluación y revisión de proyectos y artículos de I+D+i

1 **Nombre de la actividad:** Programa PEP de la ANECA
Funciones desempeñadas: Evaluador del CV de los solicitantes para el acceso a las figuras de profesor universitario contratado
Entidad de realización: Agencia Nacional de Evaluación de la Calidad y Acreditación **Tipo de entidad:** Agencia Nacional
Ciudad entidad realización: España
Ámbito geográfico: Nacional
Fecha de inicio-fin: 01/01/2009 - 31/12/2012

2 **Funciones desempeñadas:** Evaluador de proyectos
Entidad de realización: Agencia Nacional de Evaluación y Prospectiva **Tipo de entidad:** Agencia Nacional
Ciudad entidad realización: España
Ámbito geográfico: Nacional
Fecha de inicio-fin: 01/01/1990 - 31/12/2012

3 **Funciones desempeñadas:** Comité del consejo Cientifico del Cibican
Entidad de realización: Universidad de La Laguna **Tipo de entidad:** Universidad
Ciudad entidad realización: Tenerife, Canarias, España
Ámbito geográfico: Nacional
Fecha de inicio: 01/01/2010

Otros méritos

Estancias en centros de I+D+i públicos o privados

1 **Entidad de realización:** Universidad de Granada **Tipo de entidad:** Universidad
Facultad, instituto, centro: Instituto de Nutrición y Tecnología de los Alimentos José Mataix"
Ciudad entidad realización: Granada, Andalucía, España
Primaria (Cód. Unesco): 241100 - Fisiología humana
Fecha de inicio-fin: 01/01/2004 - 01/11/2004 **Duración:** 10 meses
Objetivos de la estancia: Posdoctoral

2 **Entidad de realización:** University of Central Lancashire **Tipo de entidad:** Universidad
Facultad, instituto, centro: School of Applied Biology. Lancashire Polytechnic
Ciudad entidad realización: Oxford, Lancashire, Reino Unido
Primaria (Cód. Unesco): 241100 - Fisiología humana
Fecha de inicio-fin: 15/07/1990 - 15/09/1990 **Duración:** 2 meses
Objetivos de la estancia: Posdoctoral

3 **Entidad de realización:** University of Central Lancashire **Tipo de entidad:** Universidad
Facultad, instituto, centro: School of Applied Biology. Lancashire Polytechnic
Ciudad entidad realización: Oxford, Lancashire, Reino Unido
Primaria (Cód. Unesco): 241100 - Fisiología humana
Fecha de inicio-fin: 12/07/1989 - 24/09/1989 **Duración:** 3 meses
Objetivos de la estancia: Posdoctoral

4 **Entidad de realización:** University of Oxford **Tipo de entidad:** Universidad
Facultad, instituto, centro: Metabolic Research Laboratory, Nuffield Dept. of Clinical Medicine
Ciudad entidad realización: Oxford, Berkshire, Buckinghamshire and Oxfordshire, Reino Unido
Primaria (Cód. Unesco): 241100 - Fisiología humana
Fecha de inicio-fin: 01/02/1983 - 01/05/1983 **Duración:** 4 meses
Objetivos de la estancia: Posdoctoral

Ayudas y becas obtenidas

1 **Nombre de la ayuda:** Ayuda Participación congreso
Finalidad: Congreso
Entidad concesionaria: Universidad de Extremadura **Tipo de entidad:** Universidad
Fecha de concesión: 01/01/1990
Entidad de realización: Universidad de Extremadura

2 **Nombre de la ayuda:** Bolsa de Estudio en el Extranjero
Finalidad: Estancias Breves
Entidad concesionaria: Universidad de Extremadura **Tipo de entidad:** Universidad
Fecha de concesión: 01/01/1990
Entidad de realización: University of Central Lancashire

3 **Nombre de la ayuda:** Travel Grant
Finalidad: Estancias Breves
Entidad concesionaria: The Wellcome Trust **Tipo de entidad:** Agencia Estatal
Fecha de concesión: 01/01/1990
Entidad de realización: University of Central Lancashire

4 **Nombre de la ayuda:** Bolsa de Viaje territorio nacional
Finalidad: Estancias Breves
Entidad concesionaria: Universidad de Extremadura **Tipo de entidad:** Universidad
Fecha de concesión: 01/01/1989
Entidad de realización: Universidad de Extremadura

5 **Nombre de la ayuda:** Grant in Aid Programme
Finalidad: Estancias Breves
Entidad concesionaria: EMBAJADA DEL REINO UNIDO (BRITISH COUNCIL)
Fecha de concesión: 01/01/1989
Entidad de realización: University of Central Lancashire

6 **Nombre de la ayuda:** Travel Grant
Finalidad: Estancias Breves
Entidad concesionaria: The Wellcome Trust **Tipo de entidad:** Agencia Estatal
Fecha de concesión: 01/01/1989
Entidad de realización: University of Central Lancashire

7 **Nombre de la ayuda:** Bolsa de Viaje territorio nacional
Finalidad: Estancias Breves
Entidad concesionaria: Universidad de Extremadura **Tipo de entidad:** Universidad
Fecha de concesión: 01/01/1988
Entidad de realización: Universidad de Extremadura

8 **Nombre de la ayuda:** Subvención de Desplazamiento para Investigación
Finalidad: Estancias Breves
Entidad concesionaria: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de concesión: 01/01/1982
Entidad de realización: Universidad de Granada
Facultad, instituto, centro: Facultad de Farmacia

9 **Nombre de la ayuda:** Subvención de asistencia a Congreso
Finalidad: Estancias Breves
Entidad concesionaria: Universidad de Granada **Tipo de entidad:** Universidad
Fecha de concesión: 01/01/1979

Entidad de realización: Universidad de Granada
Facultad, instituto, centro: Facultad de Farmacia

Períodos de actividad investigadora

Nº de tramos reconocidos: 6
Ámbito geográfico: Nacional
Entidad acreditante: Universidad de Extremadura **Tipo de entidad:** Universidad
Ciudad entidad acreditante: Cáceres, Extremadura, España
Fecha de obtención: 01/01/2013

Resumen de otros méritos

1 **Descripción del mérito:** Miembro de la Comisión de Reglamentos de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

2 **Descripción del mérito:** Miembro de la Comisión de Reglamentos de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

3 **Descripción del mérito:** Miembro de la Junta de Gobierno de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

4 **Descripción del mérito:** Miembro del Claustro de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

5 **Descripción del mérito:** ex Director Ejecutivo de la Revista Acta Veterinaria
Entidad acreditante: Facultad de Veterinaria **Tipo entidad:** Centros y Estructuras Universitarios y Asimilados
Ciudad entidad acreditante: Cáceres, Extremadura, España

6 **Descripción del mérito:** ex Presidente de la Asociación de Licenciados en Biología de España (ALBE)
Ciudad entidad acreditante: España

7 **Descripción del mérito:** ex Vicedecano del Colegio Oficial de Biologos
Ciudad entidad acreditante: España

8 **Descripción del mérito:** ex director del departamento de Fisiología de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

9 **Descripción del mérito:** ex-Decano de la Facultad de Veterinaria de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

10 **Descripción del mérito:** ex-Miembro de Consejo Social de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

11 **Descripción del mérito:** ex-Miembro de la Junta Consultiva de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

12 **Descripción del mérito:** ex-Rector de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

13 **Descripción del mérito:** ex-Secretario del Departamento de Fisiología de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España

14 **Descripción del mérito:** ex-coordinador del programa ERASMUS en la Facultad de Veterinaria de la Universidad de Extremadura
Entidad acreditante: Universidad de Extremadura **Tipo entidad:** Universidad
Ciudad entidad acreditante: Extremadura, España