



**Lisardo Boscá Gomar**

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Date of document: 27/11/2020

**v 1.4.3**

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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.

Under the viewpoint of the molecular mechanisms that govern the metabolic profiling of macrophages and their impact on the cell function we have demonstrated the basic principles associated to the metabolic adaptation of macrophages depending on their functional proinflammatory polarization (M1) or anti-inflammatory and pro-resolution (M2a/b). These works use techniques intended to provide fluxomics and metabolomics maps associated to the functional polarization. The use of these routes, which is important in pathological contexts where oxygen is limiting are mainly directed towards anaplerotic purposes. Finally, we have concluded that HIF-1alpha did not exert the preponderant role that the in vitro studies show, being replaced by HIF-2alpha in animals in which this gene is deleted. These works have been positioned the group in a relevant position in the field of the metabolic regulation of macrophage function associated to its polarization. As evidence of this, these works have been cited more than 140 times in high impact journals in the field of immunobiology. As an extension of these studies, the diagnosing of atherogenesis requires imaging techniques to identify the presence of 'active' plates, i.e. recruiting macrophages and other cell types following an atherogenic event. In collaboration with the group of Dr. J. Narula (Mount Sinai Med School, NY) we tried different PET-based tracers to improve the imaging based on the classic FDG incorporation that offers low resolution levels. One of the most promising new substrates to characterize macrophage signatures is the uptake of fluoro-deoxymannose that provides a significant increase in the intracellular 'burden' signal. Our group identified the mechanisms by which this mannose mark exceeds widely that of glucos, allowing a significant increase in the quality and specificity of the PET image without affecting costs, toxicity or detection mechanism. This work has opened new perspectives for the characterization of alternative molecules to FDG tracers of atherogenesis, with a clear application to biomedical imaging. These studies have been conducted in rodents, rabbits and are being implemented in humans. With a cost of € 5-10 for each administration in humans and an increase up to 3 times in the signal vs. noise ratio, represent a valid alternative for the athero detection. The study of molecules derived from natural products with anti-inflammatory activity is a subject of broad translational interest. However, surprisingly little is known regarding the molecular mechanisms involved. Chemical series derived from acanthoic acid exhibit potent anti-inflammatory action and we showed that they selectively activate the nuclear receptor LXR. By examining the mechanisms that mediate the pharmacological actions of these molecules we saw that they also selectively activate two isoforms of PI3K in the macrophage. The recapitulation of these data provides for the first time a series of molecules (from natural products) that simultaneously activate a nuclear receptor ( LXR ) and PI3K, both converging in suppressing macrophage inflammatory genes. The work has paid an editorial in the journal BIOL&CHEM from the CELL group.



## 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.

índice h=53 (marzo 2019). Promedio de citas por publicación: 31,32 .  
Total de veces citado 9.364; sin citas propias 8.642

## Lisardo Boscá Gomar

Surname(s): **Boscá Gomar**  
Name: **Lisardo**  
ORCID: **0000-0002-0253-5469**  
Contact aut. region/reg.: **Community of Madrid**

### Current professional situation

**Employing entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Department:** Centro Mixto CSIC-UAM  
**Professional category:** Profesor de Investigación **Educational Management (Yes/No):** No  
**Start date:** 01/12/2006  
**Type of contract:** Civil servant **Dedication regime:** Full time  
**Field of management activity:** Public Research Body

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Instituto de Salud Carlos III	Subdirector General de Fomento y Evaluación de la Investigación	01/03/2013
2	IIBm (CSIC-UAM)	Director de Instituto (IIBm, CSIC-UAM)	2008
3	FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)	Director Científico	2007
4	CSIC-Universidad Complutense de Madrid	Profesor de Investigación CSIC. Instituto de Bioquímica. Centro Mixto CSIC-UCM. Facultad de Farmacia.	2004
5	Instituto de Bioquímica. Facultad de Farmacia UCM	Director Instituto.	2002
6	Centro Nacional de Investigaciones Cardiovasculares (CNIC)	Jefe de grupo	2001
7	CSIC-Universidad Complutense de Madrid	Investigador Científico CSIC. Instituto de Bioquímica. Centro Mixto CSIC-UCM. Facultad de Farmacia.	1999
8	CSIC-Universidad Complutense de Madrid.	Científico Titular CISC. Instituto de Bioquímica. Facultad de Farmacia.	1986
9	Institute for Cellular Pathology. Brussels	EMBO Fellow	1984
10	Universidad Autónoma de Madrid	Profesor Ayudante UAM.Facultad de Medicina.	1980
11	IIBm (CSIC-UAM)	Profesor de Investigación CSIC-IIBM-Alberto Sols	2007



- 1** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body  
**Professional category:** Subdirector General de Fomento y Evaluación de la Investigación  
**Start-End date:** 01/03/2013 - 01/09/2015
- 2** **Employing entity:** IIBm (CSIC-UAM)  
**Professional category:** Director de Instituto (IIBm, CSIC-UAM)  
**Start-End date:** 2008 - 2012
- 3** **Employing entity:** FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)  
**Professional category:** Director Científico  
**Start-End date:** 2007 - 2008
- 4** **Employing entity:** CSIC-Universidad Complutense de Madrid  
**Professional category:** Profesor de Investigación CSIC. Instituto de Bioquímica. Centro Mixto CSIC-UCM. Facultad de Farmacia.  
**Start-End date:** 2004 - 2008
- 5** **Employing entity:** Instituto de Bioquímica. Facultad de Farmacia UCM  
**Professional category:** Director Instituto.  
**Start-End date:** 2002 - 2006
- 6** **Employing entity:** Centro Nacional de Investigaciones Cardiovasculares (CNIC)  
**Professional category:** Jefe de grupo  
**Start-End date:** 2001 - 2006
- 7** **Employing entity:** CSIC-Universidad Complutense de Madrid  
**Professional category:** Investigador Científico CSIC. Instituto de Bioquímica. Centro Mixto CSIC-UCM. Facultad de Farmacia.  
**Start-End date:** 1999 - 2004
- 8** **Employing entity:** CSIC-Universidad Complutense de Madrid.  
**Professional category:** Científico Titular CISC. Instituto de Bioquímica. Facultad de Farmacia.  
**Start-End date:** 1986 - 1999
- 9** **Employing entity:** Institute for Cellular Pathology. **Type of entity:** University Brussels  
**Professional category:** EMBO Fellow  
**Start-End date:** 1984 - 1985
- 10** **Employing entity:** Universidad Autónoma de Madrid  
**Professional category:** Profesor Ayudante UAM.Facultad de Medicina.  
**Start-End date:** 1980 - 1983
- 11** **Employing entity:** IIBm (CSIC-UAM)  
**Professional category:** Profesor de Investigación CSIC- IIBM-Alberto Sols  
**Start date:** 2007



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**Name of qualification:** Licenciado en Ciencias Químicas

**Degree awarding entity:** Universitat de València

**Date of qualification:** 1979

#### Doctorates

**Doctorate programme:** Doctor en Ciencias Químicas.

**Degree awarding entity:** Universidad Autónoma de Madrid

**Date of degree:** 1983

**Thesis director:** Alberto Sols García

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German		B1	C1	C1	C1
French		C1	C1	C1	C1
English		C1	C1	C1	C1

## Teaching experience

### Experience supervising doctoral thesis and/or final year projects

- Project title:** Papel de la pro-proteína convertasa subtilisina kexina de tipo 9 (PCSK9) en el macrófago. Implicaciones en el desarrollo de aterosclerosis

**Entity:** Universidad Autónoma de Madrid **Type of entity:** University

**Student:** César Eduardo Rosales mensoza

**Obtained qualification:** Sobresaliente cum laude

**Date of reading:** 01/09/2017
- Project title:** Estudio del perfil transcripcional de los receptores nucleares LXR en un modelo celular de macrófago murino inmortalizado

**Entity:** Universidad Complutense de Madrid **Type of entity:** University

**Student:** Almudena Ramón Vázquez

**Obtained qualification:** Sobresaliente cum laude

**Date of reading:** 01/07/2017



- 3** **Project title:** Nod1 is pro-atherogenic and its genetic deletion prevents early atherosclerosis development in Apoe<sup>-/-</sup> mice.  
**Entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**Student:** Silvia González Ramos  
**Obtained qualification:** Sobresaliente cum laude  
**Date of reading:** 16/12/2016  
**Quality recognition:** Yes
- 4** **Project title:** Potencial terapéutico de diterpenos en inflamación y cardioprotección  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Irene Cuadrado Berrocal  
**Date of reading:** 21/11/2013
- 5** **Project title:** Los derivados de productos naturales como fuente de nuevos agentes bioactivos  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** María Pimentel santillana  
**Date of reading:** 25/10/2013
- 6** **Project title:** Estudio del efecto pro-apoptótico de los diterpenos derivados del labdano en células tumorales  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Gabriel Bergazyn Liberman  
**Date of reading:** 20/10/2011
- 7** **Project title:** Papel del supresor tumoral p19ARF en la respuesta inflamatoria  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Raquel López Fontal  
**Date of reading:** 17/04/2010
- 8** **Project title:** Papel antiapoptótico de la lipoxina A4 en macrófagos: Papel en la resolución de la inflamación  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Patricia Prieto Chinchilla  
**Date of reading:** 01/04/2010
- 9** **Project title:** Papel de la caveolina-1 en proliferación y regeneración hepática  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Rafael Mayoral Moñibas  
**Date of reading:** 01/10/2007
- 10** **Project title:** Respuesta inflamatoria temprana de monocitos humanos expuestos a lipoproteínas y cortisol  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Mónica Torres Coronado  
**Date of reading:** 01/09/2007



- 11** **Project title:** Aproximación genómica al estudio del receptor X de retinoides (RXR) en la biología del macrófago. Papel de RXR en la regulación de quimioquinas  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Daniel Rico Rodríguez  
**Date of reading:** 01/04/2007
- 12** **Project title:** Respuesta del cardiomiocito al estrés inflamatorio  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Jimena Cuenca Romero  
**Date of reading:** 15/10/2006
- 13** **Project title:** Efectos anti-inflamatorios de derivados sintéticos del ácido acantoico  
**Entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency  
**Student:** Francisca González Través  
**Date of reading:** 01/10/2006
- 14** **Project title:** Mecanismos de regeneración hepática: regulación por óxido nítrico y prostaglandinas  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** Miriam Zeini Moreno  
**Date of reading:** 01/10/2005
- 15** **Project title:** Factores condicionantes de la viabilidad del injerto en el trasplante hepático humano  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** Luis Olmedilla Arenal  
**Date of reading:** 01/07/2003
- 16** **Project title:** Mecanismos de regulación negativa de NF $\kappa$ B en el macrófago activado  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** Antonio Castrillo Viguera  
**Date of reading:** 01/10/2001
- 17** **Project title:** Papel del NF $\kappa$ B en la regulación de la viabilidad del macrófago activado  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** Eduardo López Collazo  
**Date of reading:** 01/12/1998
- 18** **Project title:** Bases moleculares de la regulación transcripcional de la óxido nítrico sintasa inducible en el hepatocito  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** Marta Velasco Cardenal  
**Date of reading:** 01/02/1998
- 19** **Project title:** Regulación de la expresión de la óxido nítrico sintasa inducible hepática  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** Sonsoles Hortelano Blanco  
**Date of reading:** 01/04/1996





- 20** **Project title:** Análisis de la respuesta hormonal en distintos estadios de diferenciación hepática  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** María Junco Petrement  
**Date of reading:** 01/06/1993
- 21** **Project title:** Proteína quinasa C hepática: Caracterización y mecanismos de activación  
**Entity:** Instituto de Bioquímica **Type of entity:** State agency  
**Student:** María Martínez Díaz-Guerra  
**Date of reading:** 01/05/1990

## Healthcare experience

### Other activities/achievements not included above

**Other relevant activities:** Subdirector General de Fomento y Evaluación de la Investigación  
**Entity where project took place:** Instituto de Salud Carlos III **Type of entity:** Public Research Body  
**End date:** 31/08/2014

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Consorcio para el estudio del fracaso renal agudo: fisiopatología, nuevas terapias, biomarcadores y modelos experimentales.  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**City of entity:** MADRID, Spain  
**Nº of researchers:** 1  
**Start-End date:** 01/01/2018 - 31/12/2021  
**Total amount:** 830.000 €
- 2** **Name of the project:** CIBER SOBRE ENFERMEDADES CARDIOVASCULARES  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**City of entity:** MADRID, Spain  
**Nº of researchers:** 1  
**Start-End date:** 01/01/2018 - 31/12/2020  
**Total amount:** 174.000 €
- 3** **Name of the project:** Modulación inmunometabólica del macrófago a través de mTOR y de la señalización purinérgica para favorecer la estabilidad de la placa en la aterogénesis  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

**City of entity:** MADRID, Spain  
**Nº of researchers:** 1  
**Start-End date:** 01/01/2018 - 31/12/2020  
**Total amount:** 305.000 €

- 4** **Name of the project:** valoración de la cardioprotección frente a infarto de miocardio por administración de aptámeros antagonistas selectivos de Tlr4 (aptámero 4ft-aptoll).  
**Entity where project took place:** CSIC **Type of entity:** R&D Centre  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI....):** Lisardo Bosca Gomar  
**Nº of researchers:** 1  
**Start-End date:** 01/09/2018 - 31/12/2019  
**Total amount:** 84.000 €
- 5** **Name of the project:** Characterization of the immunometabolic actions of trabectedin and PM01183 in murine and human macrophages: An approach to understand the role of these drugs on tumor associated macrophages (TAM)  
**Entity where project took place:** Consejo Superior **Type of entity:** State agency de Investigaciones Científicas  
**City of entity:** MADRID, Community of Madrid, Spain  
**Nº of researchers:** 1  
**Start-End date:** 01/06/2018 - 31/12/2019  
**Total amount:** 58.800 €
- 6** **Name of the project:** Desarrollo preclínico de una molécula basada en tecnología de aptámeros específica de TLR-4 y de aplicación en ictus agudo y enfermedades cardiovasculares  
**Entity where project took place:** RTC-2015-3741-1. 10/15-12/17  
**City of entity:** MADRID,  
**Name principal investigator (PI, Co-PI....):** Lisardo BOSCA GOMAR; Lisardo Boscá. IIB-AS (Centro Mixto CSIC-UAM)  
**Start date:** 01/10/2015
- 7** **Name of the project:** Estudio de la relación entre polarización funcional y metabolismo energético del macrófago en patologías inflamatorias  
**Entity where project took place:** SAF2014-52492. 1/15-12/17  
**City of entity:** MADRID,  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (Centro Mixto CSIC-UAM)  
**Start date:** 01/01/2015
- 8** **Name of the project:** Nuevas tecnologías para la producción de los concentrados de alta pureza de los ácidos grasos omega3 EPA y DHA. Cantidad financiada: 138.783 €.  
**Entity where project took place:** MINECO PROGRAMA INNFACTO. IPT2012-1331-06000. 12/12-12/15  
**Name principal investigator (PI, Co-PI....):** SOLUTEX. GRUPO ASOCIADO Lisardo Boscá. IIB-AS. CSIC-UAM.  
**Start date:** 01/01/2013
- 9** **Name of the project:** Red temática de enfermedades cardiovasculares. Cantidad financiada: 64.671,59 €.  
**Entity where project took place:** ISCIII RED CARDIOVASCULAR (RD12/0042/0019) 01/13-12/13  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (CSIC) Coordinador  
**Start date:** 01/01/2013



- 10 Name of the project:** Metabolic interplay during macrophage activation and role in the outcome of cardiovascular diseases. Cantidad financiada: 295.000 €.  
**Entity where project took place:** MICINN BFU2011-24760. 01/12-12/14  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (Centro Mixto CSIC-UAM)  
**Start date:** 01/01/2012
- 11 Name of the project:** Utilización de modelos animales y celulares para caracterizar el fracaso renal agudo y multiorgánico. Cantidad financiada: 793.500 €; Presupuesto Grupo 30.000 €/año.  
**Entity where project took place:** Instituto de Investigaciones Biomédicas Alberto Sols  
**Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS. CSIC-UAM. (Coordinador)  
**Start date:** 01/01/2012
- 12 Name of the project:** Identificación y validación de mecanismo de acción y biomarcadores de respuesta a fármacos antitumorales en tumores humanos. Cantidad financiada: 60.000 €.  
**Entity where project took place:** CENIT ONCOLOGICA. 01/10-12/11  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (Centro Mixto CSIC-UAM)  
**Start date:** 01/10/2011
- 13 Name of the project:** Estudio del potencial terapéutico de las nuevas arilideno tiazolininedionas: Efecto sobre el estrés oxidativo, la inflamación y la aterosclerosis. Cantidad financiada: 70.000 €.  
**Entity where project took place:** MICINN PIB2010BZ-00540. 12/10-11/12  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. UCM  
**Start date:** 01/12/2010
- 14 Name of the project:** Fisiopatología de la infiltración cardiaca. Papel de los macrófagos en la disfunción cardiaca. Cantidad financiada: 270.000 €.  
**Entity where project took place:** BFU2008-02161. 08/08-07/11  
**Type of entity:** State agency  
**City of entity:** MADRID,  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (Centro Mixto CSIC-UAM)  
**Start date:** 01/08/2008
- 15 Name of the project:** Modelos animales para el estudio del fracaso renal agudo. Cantidad financiada: 900.000 €; Presupuesto Grupo 60.000 €/año.  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. UCM (Coordinador)  
**Start date:** 01/01/2007
- 16 Name of the project:** Red temática de enfermedades cardiovasculares. Cantidad financiada: 270.716 €.  
**Entity where project took place:** ISCIII RECAVA (RD06/0014/0006) 01/07-12/09  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (CSIC) Coordinador  
**Start date:** 01/01/2007
- 17 Name of the project:** Respuesta inflamatoria a fármacos antitumorales de FAES. Cantidad financiada: 80.000 €.  
**Entity where project took place:** CENIT CDTI-FAES. 01/07-12/09  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. IIB-AS (Coordinador: S. Lamas; CIB)  
**Start date:** 01/01/2007
- 18 Name of the project:** Inflamación y disfunción cardiomiocitaria: Papel de la infiltración y activación de células inflamatorias en la fisiopatología cardiaca. Cantidad financiada: 290.000 €.  
**Entity where project took place:** MEC (SAF2005-03022). 12/05-11/08



**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Centro Nacional de Investigaciones Cardiovasculares

**Start date:** 01/12/2005

- 19 Name of the project:** Efectos tempranos de antimetabolitos nucleotídicos sobre la proliferación y diferenciación de células linfoides. Cantidad financiada: 5.900.000 pts.

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/01/1995

- 20 Name of the project:** Participación de la proteína quinasa C en la inducción de la oxido nítrico sintasa. Cantidad financiada: 650.000 pts.

**Entity where project took place:** CICYT (HB93-182); 3/94-4/95

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá/Peter J. Parker. Instituto de Bioquímica (CSIC-UCM)/Imperial Cancer Research Fund (Lon

**Start date:** 01/03/1994

- 21 Name of the project:** Inducción de la oxidonítrico sintasa por ésteres de forbol y citoquinas. Cantidad financiada: 2.000.000 pts.

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/01/1994

- 22 Name of the project:** Regulación de la expresión de la 6-fosfofructo 2-quinasa hepática durante la transición fetal/neonatal. Caracterización del promotor del enzima fetal. Cantidad financiada: 10.810.000 pts.

**Entity where project took place:** FISS (92/0267); 1/92-12/94

**Name principal investigator (PI, Co-PI....):** Paloma Martín. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/01/1994

- 23 Name of the project:** Inducción de la óxido nítrico sintasa por ésteres de forbol y citoquinas. Participación de la proteína quinasa C en el proceso. Cantidad financiada: 15.175.000 pts.

**Entity where project took place:** CICYT (PB92-070); 5/93-4/96

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/05/1993

- 24 Name of the project:** Caracterización de los isoenzimas de la proteína quinasa C mediante la utilización de sustratos específicos. Cantidad financiada: 3.000.000 pts.

**Entity where project took place:** CICYT (PB91-134); 4/92-4/93

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/04/1992

- 25 Name of the project:** Adquisición de infraestructura dentro del proyecto: Participación del ciclo del fosfatidilinositol en el mecanismo de transmisión de señales extracelulares en hepatocitos. Cantidad financiada: 3.000.000 pts.

**Entity where project took place:** CICYT (IN89-069); 1-12/1990

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/01/1990

- 26 Name of the project:** Participación del ciclo del fosfatidilinositol en el mecanismo de transmisión de señales extracelulares en hepatocitos. Cantidad financiada: 14.300.000 pts.

**Entity where project took place:** CICYT (PM88-025); 3/89-3/91

**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

**Start date:** 01/03/1989



- 27** **Name of the project:** Mechanism of cold-adaptation in lower vertebrates and invertebrates. Cantidad financiada: 600.000 pts.  
**Entity where project took place:** NATO (0615/88); 6-11/1988  
**City of entity:** Ottawa,  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá; Kenneth B. Storey. Institute of Biochemistry Carleton University (Ottawa; Canada)  
**Funding entity or bodies:**  
NATO (0615/88);  
**City funding entity:** Ottawa, Canada  
**Start date:** 1988
- 28** **Name of the project:** Proteína quinasa C hepática. Participación en la transducción de señales hormonales. Cantidad financiada: 1.500.000 pts.  
**Entity where project took place:** FISS (88/1452); 1-12/1988  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)  
**Funding entity or bodies:**  
FISS (88/1452)  
**Start date:** 1988
- 29** **Entity where project took place:** FISS (88/1544); 1-12/1988  
**Name principal investigator (PI, Co-PI....):** Luz Barbolla. Clínica Puerta de Hierro  
**Start date:** 1988  
**Applicant's contribution:** es de los trasplantes ABH incompatibles al conocimiento del sistema ABH. Cantidad financiada: 1.700.000 pts.
- 30** **Name of the project:** Proteína quinasa C en células hepáticas.  
**Entity where project took place:** Instituto de Bioquímica (CSIC-UCM) **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá.  
**Start date:** 1987 **Duration:** 12 months
- 31** **Name of the project:** 6-Fosfofructo-2-quinasa y piruvato quinasa hepáticas durante la transición fetal/neonatal en la rata. Factores de transcripción implicados en la expresión específica de las formas fetal y adulta. Cantidad financiada: 13.350.000 pts.  
**Entity where project took place:** FISS (95/0966); 1/95-12/97  
**Name principal investigator (PI, Co-PI....):** Paloma Martín. Instituto de Bioquímica (CSIC-UCM)
- 32** **Name of the project:** Activación de proteínas Ras por la ciclopentenona 15dPGJ2: Papel en procesos tumorales. Cantidad financiada: 46.800 €.  
**Entity where project took place:** Fundació La Caixa (ON03/180-02). 10/03-09/06  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 33** **Name of the project:** Adquisición de sistemas de detección de emisión radiactiva. Cantidad financiada: 10.000.000 pts.  
**Entity where project took place:** CICYT. Plan de I+D (infraestructura; 1996)  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 34** **Name of the project:** Estudio de la endotoxemia en ratas gestantes. Efecto sobre la placenta y tejidos fetales. Cantidad financiada: 14.861.000 pts.  
**Entity where project took place:** FISS (98/0220); 1/98-12/00



**Name principal investigator (PI, Co-PI....):** Paloma Martín. Instituto de Bioquímica (CSIC-UCM)

- 35 Name of the project:** Expresión de receptores de glucocorticoides en monocitos circulantes de pacientes con aterosclerosis coronaria. Efecto de la carga lipídica intracelular en el mecanismo de acción de los glucocorticoides. Cantidad financiada: 42.000 €.  
**Entity where project took place:** Fundación de Investigación Médica Mutua Madrileña. 10/05-09/08  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Universidad Complutense de Madrid.
- 36 Name of the project:** Mecanismos de control negativo en la activación del macrófago: Inhibición de la expresión de la óxido nítrico sintasa tipo 2. Cantidad financiada: 22.000.000 pts.  
**Entity where project took place:** CICYT (PM98-0120). 6/99-5/02  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 37 Name of the project:** Mecanismos de protección y muerte celular mediados por inmunofilinas a nivel hepatorrenal. Papel del endotelio vascular. Cantidad financiada: 4.000.000 pts.  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 38 Name of the project:** Mecanismos implicados en la expresión de la óxido nítrico sintasa en el hígado. Cantidad financiada: 18.000.000 pts.  
**Entity where project took place:** CICYT (PM95-0007). 6/96-5/99  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 39 Name of the project:** Mecanismos moleculares implicados en la resolución de los procesos inflamatorios. Cantidad financiada: 280.750 €.  
**Entity where project took place:** CICYT (SAF 2002-00783). 12/02-11/05  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Centro Nacional de Investigaciones Cardiovasculares
- 40 Name of the project:** Nuevas perspectivas en el fracaso renal agudo y la disfunción del injerto renal. Mecanismos celulares y moleculares de la defensa tubular y endotelial frente a la agresión. Cantidad financiada: 48.480 €.  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá (coordinado)
- 41 Name of the project:** Papel del IFN en la defensa celular mediada por la síntesis de NO. Cantidad financiada: 3.500.000 pts.  
**Entity where project took place:** CICYT. Plan de I+D (BIO95-2071-E); 1-12/1996  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 42 Name of the project:** Regulación de la apoptosis durante la inflamación y en la resolución de los procesos inflamatorios: Activación del apoptosoma por NO e hipoxia. Cantidad financiada: 10.000 €.  
**Entity where project took place:** MCYT, Acciones integradas hispano-alemanas. 1/03-12/04  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Centro Nacional de Investigaciones Cardiovasculares; Bernhart Brüne. U. de Kaiserslautern
- 43 Name of the project:** Remodelación de la matriz extracelular: Papel del NO en la regulación de la expresión y actividad de las metaloproteinasas de matriz extracelular. Cantidad financiada: 30.790.000 pts.  
**Entity where project took place:** Proyectos FEDER (2FD97-1432). 1/00-12/01  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)
- 44 Name of the project:** Respuesta celular endotelial y tubular a CsA y FK506: Implicaciones en la disfunción primaria del injerto. Cantidad financiada: 3.225.000 pts.  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá (coordinado)



- 45** **Name of the project:** Respuesta hepatorenal a la agresión celular por inmunosupresores mediados por inmunofilinas. Cantidad financiada: 3.000.000 pts.  
**Name principal investigator (PI, Co-PI....):** Lisardo Boscá. Instituto de Bioquímica (CSIC-UCM)

### R&D non-competitive contracts, agreements or projects with public or private entities

- 1** **Name of the project:** Valoración de la cardioprotección frente a infarto de miocardio por administración de aptámeros antagonistas selectivos de tlr4 (aptámero 4ft-aptoll).  
**Name principal investigator (PI, Co-PI....):** Lisardo Bosca Gomar  
**Nº of researchers:** 1  
**Start date:** 01/09/2018 **Duration:** 1 year  
**Total amount:** 78.000 €
- 2** **Name of the project:** Evaluation of antiinflammatory molecules from FAES-FARMA pipeline  
**Degree of contribution:** Scientific coordinator  
**Start date:** 01/01/2013 **Duration:** 2 years  
**Total amount:** 70.000 €

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Patricia Prieto; César Eduardo Rosales Mendoza; Verónica Terrón; Víctor Toledano; Antonio Cuadrado; Eduardo López Collazo; Gerard Bannenberg; Paloma Martín Sanz; María Fernández Velasco; Lisardo Boscá. Activation of autophagy in macrophages by pro-resolving lipid mediators. *Autophagy*. 11 - 10, pp. 1729 - 1773. 03/10/2015. ISSN 1554-8635  
**PMID:** 26506892  
**Type of production:** Scientific paper  
**Corresponding author:** Yes  
**Relevant publication:** Yes
- 2** Carmen Delgado; Gema Ruiz Hurtado; Nieves Gómez Hurtado; Silvia González Ramos; Angelica Rueda; Gemma Benito; Patricia Prieto; Carlos Zaragoza; Esmerilda G Delicado; Raquel Pérez Sen; Maria Teresa Miras Portugal; Gabriel Núñez; Lisardo Boscá; María Fernández Velasco. NOD1, a new player in cardiac function and calcium handling. *Cardiovascular research*. 106 - 3, pp. 375 - 461. 01/06/2015. ISSN 1755-3245  
**PMID:** 25824149  
**Type of production:** Scientific paper  
**Corresponding author:** Yes  
**Relevant publication:** Yes
- 3** Paqui G Través; María Pimentel Santillana; Daniel Rico; Nuria Rodriguez; Thomas Miethke; Antonio Castrillo; Emmanuel A Theodorakis; Paloma Martín Sanz; Michael A Palladino; Lisardo Boscá. Anti-inflammatory actions of acanthoic acid-related diterpenes involve activation of the PI3K p110 $\alpha$  subunits and inhibition of NF- $\kappa$ B. *Chemistry & biology*. 21 - 8, pp. 955 - 1021. 14/08/2014. ISSN 1879-1301  
**PMID:** 25065531



**Type of production:** Scientific paper  
**Corresponding author:** Yes  
**Relevant publication:** Yes

- 4** Silvia González Ramos; Marta Paz García; Cristina Rius; Alberto Del Monte Monge; Cristina Rodríguez; Victoria Fernández García; Vicente Andrés; José Martínez González; Miguel A Lasunción; Paloma Martín Sanz; Oliver Soehnlein; Lisardo Boscá. Endothelial NOD1 directs myeloid cell recruitment in atherosclerosis through VCAM-1. *FASEB journal*. 33 - 3, pp. 3912 - 3921. 03/2019. ISSN 1530-6860  
**PMID:** 30496704  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 5** A. Ramon-Vazquez; J. V. de la Rosa; C. Tabraue; F. Lopez; B. N. Diaz-Chico; L. Bosca; P. Tontonoz; S. Alemany; A. Castrillo. Common and Differential Transcriptional Actions of Nuclear Receptors Liver X Receptors alpha and beta in Macrophages. *Mol Cell Biol*. 39 - 5, 2019. ISSN 0270-7306  
**Type of production:** Scientific paper **Format:** Journal
- 6** P. Prieto; R. I. Jaen; D. Calle; M. Gomez-Serrano; E. Nunez; M. Fernandez-Velasco; P. Martin-Sanz; S. Alonso; J. Vazquez; S. Cerdan; M. A. Peinado; L. Bosca. Interplay between post-translational cyclooxygenase-2 modifications and the metabolic and proteomic profile in a colorectal cancer cohort. *World J Gastroenterol*. 25 - 4, pp. 433 - 446. 2019. ISSN 1007-9327  
**Type of production:** Scientific paper **Format:** Journal
- 7** M. Mojena; A. Povo-Retana; S. Gonzalez-Ramos; V. Fernandez-Garcia; J. Regadera; A. Zazpe; I. Artaiz; P. Martin-Sanz; F. Ledo; L. Bosca. Benzylamine and Thenylamine Derived Drugs Induce Apoptosis and Reduce Proliferation, Migration and Metastasis Formation in Melanoma Cells. *Front Oncol*. 8, pp. 328 - 328. 2018. ISSN 2234-943X (Print)2234-943x  
**Type of production:** Scientific paper **Format:** Journal
- 8** A. Val-Blasco; J. A. Navarro-Garcia; M. Tamayo; M. J. Piedras; P. Prieto; C. Delgado; G. Ruiz-Hurtado; L. Rozas-Romero; M. Gil-Fernandez; C. Zaragoza; L. Bosca; M. Fernandez-Velasco. Deficiency of NOD1 Improves the beta-Adrenergic Modulation of Ca(2+) Handling in a Mouse Model of Heart Failure. *Front Physiol*. 9, pp. 702 - 702. 2018. ISSN 1664-042X (Print)1664-042x  
**Type of production:** Scientific paper **Format:** Journal
- 9** J. C. Silva; E. M. de Oliveira; W. M. Turato; G. H. G. Trossini; V. G. Maltarollo; M. G. R. Pitta; I. R. Pitta; B. de Las Heras; L. Bosca; M. Rudnicki; D. S. P. Abdalla. GQ-11: A new PPAR agonist improves obesity-induced metabolic alterations in LDLr(-/-) mice. *Int J Obes (Lond)*. 42 - 5, pp. 1062 - 1072. 2018. ISSN 0307-0565  
**Type of production:** Scientific paper **Format:** Journal
- 10** R. Brea; O. Motino; D. Frances; C. Garcia-Monzon; J. Vargas; M. Fernandez-Velasco; L. Bosca; M. Casado; P. Martin-Sanz; N. Agra. PGE2 induces apoptosis of hepatic stellate cells and attenuates liver fibrosis in mice by downregulating miR-23a-5p and miR-28a-5p. *Biochim Biophys Acta Mol Basis Dis*. 1864 - 2, pp. 325 - 337. 2018. ISSN 0925-4439 (Print)0925-4439  
**Type of production:** Scientific paper **Format:** Journal
- 11** R. I. Jaen; P. Prieto; M. Casado; P. Martin-Sanz; L. Bosca. Post-translational modifications of prostaglandin-endoperoxide synthase 2 in colorectal cancer: An update. *World J Gastroenterol*. 24 - 48, pp. 5454 - 5461. 2018. ISSN 1007-9327  
**Type of production:** Scientific paper **Format:** Journal





- 12** M. Mojena; M. Pimentel-Santillana; A. Povo-Retana; V. Fernandez-Garcia; S. Gonzalez-Ramos; P. Rada; A. Tejedor; D. Rico; P. Martin-Sanz; A. M. Valverde; L. Bosca. Protection against gamma-radiation injury by protein tyrosine phosphatase 1B. *Redox Biol.* 17, pp. 213 - 223. 2018. ISSN 2213-2317  
**PMID:** 29705509  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 13** O. Motino; D. E. Frances; N. Casanova; M. Fuertes-Agudo; C. Cucarella; J. M. Flores; M. T. Vallejo-Cremades; L. Olmedilla; J. Perez Pena; R. Banares; L. Bosca; M. Casado; P. Martin-Sanz. Protective Role of Hepatocyte Cyclooxygenase-2 Expression Against Liver Ischemia-Reperfusion Injury in Mice. *Hepatology.* 2018. ISSN 0270-9139  
**Type of production:** Scientific paper **Format:** Journal
- 14** P. Martin-Sanz; M. Casado; L. Bosca. Cyclooxygenase 2 in liver dysfunction and carcinogenesis: Facts and perspectives. *World J Gastroenterol.* 23 - 20, pp. 3572 - 3580. 2017. ISSN 1007-9327  
**Type of production:** Scientific paper **Format:** Journal
- 15** G. Ruiz-Hurtado; C. F. Garcia-Prieto; H. Pulido-Olmo; J. P. Velasco-Martin; P. Villa-Valverde; M. E. Fernandez-Valle; L. Bosca; M. Fernandez-Velasco; J. Regadera; B. Somoza; M. S. Fernandez-Alfonso. Mild and Short-Term Caloric Restriction Prevents Obesity-Induced Cardiomyopathy in Young Zucker Rats without Changing in Metabolites and Fatty Acids Cardiac Profile. *Front Physiol.* 8, pp. 42 - 42. 2017. ISSN 1664-042X (Print)1664-042x  
**Type of production:** Scientific paper **Format:** Journal
- 16** A. Val-Blasco; P. Prieto; S. Gonzalez-Ramos; G. Benito; M. T. Vallejo-Cremades; I. Pacheco; P. Gonzalez-Peramato; N. Agra; V. Terron; C. Delgado; P. Martin-Sanz; L. Bosca; M. Fernandez-Velasco. NOD1 activation in cardiac fibroblasts induces myocardial fibrosis in a murine model of type 2 diabetes. *Biochem J.* 474 - 3, pp. 399 - 410. 2017. ISSN 0264-6021  
**Type of production:** Scientific paper **Format:** Journal
- 17** L. Paniagua-Herranz; J. C. Gil-Redondo; M. J. Queipo; S. Gonzalez-Ramos; L. Bosca; R. Perez-Sen; M. T. Miras-Portugal; E. G. Delicado. Prostaglandin E2 Impairs P2Y2/P2Y4 Receptor Signaling in Cerebellar Astrocytes via EP3 Receptors. *Front Pharmacol.* 8, pp. 937 - 937. 2017. ISSN 1663-9812 (Print)1663-9812  
**Type of production:** Scientific paper **Format:** Journal
- 18** A. Val-Blasco; Mjgm Piedras; G. Ruiz-Hurtado; N. Suarez; P. Prieto; S. Gonzalez-Ramos; N. Gomez-Hurtado; C. Delgado; L. Pereira; G. Benito; C. Zaragoza; N. Domenech; M. G. Crespo-Leiro; D. Vasquez-Echeverri; G. Nunez; E. Lopez-Collazo; L. Bosca; M. Fernandez-Velasco. Role of NOD1 in Heart Failure Progression via Regulation of Ca(2+) Handling. *J Am Coll Cardiol.* 69 - 4, pp. 423 - 433. 2017. ISSN 0735-1097  
**PMID:** 28126160  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 19** P. Prieto; M. Fernandez-Velasco; M. E. Fernandez-Santos; P. L. Sanchez; V. Terron; P. Martin-Sanz; F. Fernandez-Aviles; L. Bosca. Cell Expansion-Dependent Inflammatory and Metabolic Profile of Human Bone Marrow Mesenchymal Stem Cells. *Front Physiol.* 7, pp. 548 - 548. 2016.  
**PMID:** 27899899  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes



- 20** O. Motino; N. Agra; R. Brea Contreras; M. Dominguez-Moreno; C. Garcia-Monzon; J. Vargas-Castrillon; C. E. Carnovale; L. Bosca; M. Casado; R. Mayoral; M. P. Valdecantos; A. M. Valverde; D. E. Frances; P. Martin-Sanz. Cyclooxygenase-2 expression in hepatocytes attenuates non-alcoholic steatohepatitis and liver fibrosis in mice. *Biochim Biophys Acta.* 1862 - 9, pp. 1710 - 23. 2016. ISSN 0006-3002 (Print)0006-3002  
**Type of production:** Scientific paper **Format:** Journal
- 21** P. Singh; S. Gonzalez-Ramos; M. Mojena; C. E. Rosales-Mendoza; H. Emami; J. Swanson; A. Morss; Z. A. Fayad; J. H. Rudd; J. Gelfand; M. Paz-Garcia; P. Martin-Sanz; L. Bosca; A. Tawakol. GM-CSF Enhances Macrophage Glycolytic Activity In Vitro and Improves Detection of Inflammation In Vivo. *J Nucl Med.* 57 - 9, pp. 1428 - 35. 2016. ISSN 0161-5505  
**PMID:** 27081166  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 22** J. C. Silva; F. A. Cesar; E. M. de Oliveira; W. M. Turato; G. L. Tripodi; G. Castilho; A. Machado-Lima; B. de Las Heras; L. Bosca; M. M. Rabello; M. Z. Hernandez; M. G. Pitta; I. R. Pitta; M. Passarelli; M. Rudnicki; D. S. Abdalla. New PPARgamma partial agonist improves obesity-induced metabolic alterations and atherosclerosis in LDLr(-/-) mice. *Pharmacol Res.* 104, pp. 49 - 60. 2016. ISSN 1043-6618  
**Type of production:** Scientific paper **Format:** Journal
- 23** M. Rudnicki; G. L. Tripodi; R. Ferrer; L. Bosca; M. G. Pitta; I. R. Pitta; D. S. Abdalla. New thiazolidinediones affect endothelial cell activation and angiogenesis. *Eur J Pharmacol.* 782, pp. 98 - 106. 2016. ISSN 0014-2999  
**Type of production:** Scientific paper **Format:** Journal
- 24** Lisardo Boscá; Silvia González Ramos; Patricia Prieto; María Fernández Velasco; Marina Mojena; Paloma Martín Sanz; Susana Alemany. Metabolic signatures linked to macrophage polarization: from glucose metabolism to oxidative phosphorylation. *Biochemical Society transactions.* 43 - 4, pp. 740 - 744. 08/2015. ISSN 1470-8752  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 25** Fernanda A César; Martina Rudnicki; Beatriz de Las Heras; Lisardo Boscá; Maria C A Lima; Ivan R Pitta; Dulcinea S P Abdalla. New indole-thiazolidine attenuates atherosclerosis in LDLr(-/-) mice. *Vascular pharmacology.* 71, pp. 174 - 254. 08/2015. ISSN 1879-3649  
**Type of production:** Scientific paper
- 26** Omar Motiño; Daniel E Francés; Rafael Mayoral; Luis Castro Sánchez; María Fernández Velasco; Lisardo Boscá; Carmelo García Monzón; Rocío Brea; Marta Casado; Noelia Agra; Paloma Martín Sanz. Regulation of MicroRNA 183 by Cyclooxygenase 2 in Liver Is DEAD-Box Helicase p68 (DDX5) Dependent: Role in Insulin Signaling. *Molecular and cellular biology.* 35 - 14, pp. 2554 - 2621. 07/2015. ISSN 1098-5549  
**Type of production:** Scientific paper
- 27** Ahmed Tawakol; Parmanand Singh; Marina Mojena; María Pimentel Santillana; Hamed Emami; Megan MacNabb; James H F Rudd; Jagat Narula; José A Enriquez; Paqui G Través; María Fernández Velasco; Ramón Bartrons; Paloma Martín Sanz; Zahi A Fayad; Alberto Tejedor; Lisardo Boscá. HIF-1? and PFKFB3 Mediate a Tight Relationship Between Proinflammatory Activation and Anerobic Metabolism in Atherosclerotic Macrophages. *Arteriosclerosis, thrombosis, and vascular biology.* 35 - 6, pp. 1463 - 1534. 06/2015. ISSN 1524-4636  
**PMID:** 25882065  
**Type of production:** Scientific paper  
**Corresponding author:** Yes



- 28** Daniel E Francés; Omar Motiño; Noelia Agrá; Águeda González Rodríguez; Ana Fernández Álvarez; Carme Cucarella; Rafael Mayoral; Luis Castro Sánchez; Ester García Casarrubios; Lisardo Boscá; Cristina E Carnovale; Marta Casado; Ángela M Valverde; Paloma Martín Sanz. Hepatic cyclooxygenase-2 expression protects against diet-induced steatosis, obesity, and insulin resistance. *Diabetes*. 64 - 5, pp. 1522 - 1553. 05/2015. ISSN 1939-327X  
**Type of production:** Scientific paper
- 29** Irene Cuadrado Berrocal; María V Gómez Gaviro; Yolanda Benito; Alicia Barrio; Javier Bermejo; María Eugenia Fernández Santos; Pedro L Sánchez; Manuel Desco; Francisco Fernández Avilés; María Fernández Velasco; Lisardo Boscá; Beatriz de Las Heras. A labdane diterpene exerts ex vivo and in vivo cardioprotection against post-ischemic injury: involvement of AKT-dependent mechanisms. *Biochemical pharmacology*. 93 - 4, pp. 428 - 467. 15/02/2015. ISSN 1873-2968  
**PMID:** 25557296  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 30** Inês Cebola; Joaquin Custodio; Mar Muñoz; Anna Díez Villanueva; Laia Paré; Patricia Prieto; Susanna Aussó; Llorenç Coll Mulet; Lisardo Boscá; Victor Moreno; Miguel A Peinado. Epigenetics override pro-inflammatory PTGS transcriptomic signature towards selective hyperactivation of PGE2 in colorectal cancer. *Clinical epigenetics*. 7 - 1, pp. 74. (Germany): 2015. ISSN 1868-7075  
**Type of production:** Scientific paper
- 31** L. Bosca; S. Gonzalez-Ramos; P. Prieto; M. Fernandez-Velasco; M. Mojena; P. Martin-Sanz; S. Alemany. Metabolic signatures linked to macrophage polarization: from glucose metabolism to oxidative phosphorylation. *Biochem Soc Trans*. 43 - 4, pp. 740 - 4. 2015. ISSN 0300-5127  
**Type of production:** Scientific paper      **Format:** Journal
- 32** Patricia Prieto; María Teresa Vallejo Cremades; Gemma Benito; Pilar González Peramato; Daniel Francés; Noelia Agra; Verónica Terrón; Silvia González Ramos; Carmen Delgado; Mariano Ruiz Gayo; Ivette Pacheco; Juan P Velasco Martín; Javier Regadera; Paloma Martín Sanz; Eduardo López Collazo; Lisardo Boscá; María Fernández Velasco. NOD1 receptor is up-regulated in diabetic human and murine myocardium. *Clinical science*. 127 - 12, pp. 665 - 742. 12/2014. ISSN 1470-8736  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 33** Carolina Cubillos Zapata; Enrique Hernández Jiménez; Víctor Toledano; Laura Esteban Burgos; Irene Fernández Ruíz; Vanesa Gómez Piña; Carlos Del Fresno; María Siliceo; Patricia Prieto Chinchina; Rebeca Pérez de Diego; Lisardo Boscá; Manuel Fresno; Francisco Arnalich; Eduardo López Collazo. NF $\kappa$ B/p100 is a key factor for endotoxin tolerance in human monocytes: a demonstration using primary human monocytes from patients with sepsis. *Journal of immunology*. 193 - 8, pp. 4195 - 4397. 15/10/2014. ISSN 1550-6606  
**Type of production:** Scientific paper
- 34** María Fernández Velasco; Silvia González Ramos; Lisardo Boscá. Involvement of monocytes/macrophages as key factors in the development and progression of cardiovascular diseases. *The Biochemical journal*. 458 - 2, pp. 187 - 280. 01/03/2014. ISSN 1470-8728  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 35** Nobuhiro Tahara; Jogeshwar Mukherjee; Hans J de Haas; Artiom D Petrov; Ahmed Tawakol; Nezam Haider; Atsuko Tahara; Cristian C Constantinescu; Jun Zhou; Hendrikus H Boersma; Tsutomu Imaizumi; Masataka Nakano; Alope Finn; Zahi Fayad; Renu Virmani; Valentin Fuster; Lisardo Bosca; Jagat Narula. 2-deoxy-2-[<sup>18</sup>F]fluoro-D-mannose positron emission tomography imaging in atherosclerosis. *Nature medicine*. 20 - 2, pp. 215 - 224. 02/2014. ISSN 1546-170X  
**Type of production:** Scientific paper



- 36** Cristina Moreno; Patricia Prieto; Álvaro Macías; María Pimentel Santillana; Alicia de la Cruz; Paqui G Través; Lisardo Boscá; Carmen Valenzuela. Modulation of voltage-dependent and inward rectifier potassium channels by 15-epi-lipoxin-A4 in activated murine macrophages: implications in innate immunity. *Journal of immunology*. 191 - 12, pp. 6136 - 6182. 15/12/2013. ISSN 1550-6606  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 37** Luis Castro Sánchez; Noelia Agra; Cristina Llorente Izquierdo; Omar Motiño; Marta Casado; Lisardo Boscá; Paloma Martín Sanz. Regulation of 15-hydroxyprostaglandin dehydrogenase expression in hepatocellular carcinoma. *The international journal of biochemistry & cell biology*. 45 - 11, pp. 2501 - 2512. 11/2013. ISSN 1878-5875  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 38** Paqui G Través; María Pimentel-Santillana; Luz María G Carrasquero; Raquel Pérez-Sen; Esmerilda G Delicado; Alfonso Luque; Manuel Izquierdo; Paloma Martín-Sanz; María T. Miras-Portugal; Lisardo Boscá. Selective Impairment of P2Y Signaling by Prostaglandin E2 in Macrophages: Implications for Ca<sup>2+</sup>-Dependent Responses. *Journal of Immunology*. 190 - 8, pp. 4226 - 4261. 15/04/2013. ISSN 1550-6606  
**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** Yes
- 39** Cristina Llorente Izquierdo; Rafael Mayoral; Carme Cucarella; Carlos Grau; Maria Soledad Alvarez; Juana María Flores; Pilar García Palencia; Noelia Agra; Luis Castro Sánchez; Lisardo Boscá; Paloma Martín Sanz; Marta Casado. Progression of liver oncogenesis in the double transgenic mice c-myc/TGF $\beta$ 1 is not enhanced by cyclooxygenase-2 expression. *Prostaglandins & other lipid mediators*. 08/04/2013. ISSN 1098-8823  
**Type of production:** Scientific paper
- 40** Jesús Cosin Roger; Santiago Vernia; Maria Soledad Alvarez; Carme Cucarella; Lisardo Boscá; Paloma Martín Sanz; Ana Julia Fernández Alvarez; Marta Casado. Identification of a novel Pfkfb1 mRNA variant in rat fetal liver. *Biochemical and biophysical research communications*. 431 - 1, pp. 36 - 76. 01/02/2013. ISSN 1090-2104  
**Type of production:** Scientific paper
- 41** P G Través; R López Fontal; I Cuadrado; A Luque; L Boscá; B de las Heras; S Hortelano. Critical role of the death receptor pathway in the antitumoral effects induced by hispanolone derivatives. *Oncogene*. 32 - 2, pp. 259 - 327. 10/01/2013. ISSN 1476-5594  
**Type of production:** Scientific paper
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### Works submitted to national or international conferences

**Title of the work:** 25years of oxidative stress. The elixir of youth  
**Name of the conference:** 25-years of ROS  
**Corresponding author:** Yes  
**City of event:** Valencia,  
**Date of event:** 2010

### R&D management and participation in scientific committees

#### R&D management

**Name of the activity:** Gestor del Plan Nacional de Biomedicina  
**Type of management:** Programme management  
**Performed tasks:** Gestor  
**Entity:** Ministerio de Ciencia e Innovación  
**Start date:** 01/01/2106  
**Type of entity:** PUBLICO  
**Duration:** 5 years

### Other achievements

#### Periods of research activity

**N° of recognized periods:** 5  
**Certifying entity:** MINECO  
**Date of recognition:** 01/01/2010  
**Type of entity:** Public Research Body