

# ANNUAL SCIENTIFIC REPORT 2016



Instituto de Investigación  
Hospital 12 de Octubre



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# PRESUPUESTO

I am pleased to have this opportunity to present the 2016 Annual Scientific Report of Instituto de Investigación Hospital 12 de Octubre (Instituto i+12). As in previous years, our objective is to inform readers about the scientific activity of Instituto i+12 during the year. The year 2016 was an important one for us, since we renewed our accreditation as a health research institute.

Throughout 2016, we prepared for the audit that led to a favorable report from the Evaluations Committee for Accreditation of the ISCIII and the renewal of our accreditation by the Secretary of State's office.

I would like to stress that the renewal of our accreditation was made possible thanks to the magnificent work of our professionals during recent years. Their excellent work and constant effort ensured that our institution was duly recognized.

Of all the activities carried out during 2016, particular attention should be given to our new web page, which was implemented to disseminate information about Instituto i+12 and to ensure communication between Instituto i+12 and all the collectives we work with, namely, society in general, the scientific community, the health system, and the financial sector. We believe that the web page will enable us to publish the results achieved by Instituto i+12 and to identify the needs and concerns of our clients, both within Instituto i+12 and outside.

In order to meet the reporting needs identified by Instituto i+12 in its Strategic Plan for Internal and External Communication, we prepared a series of information triptychs, one containing general information about Instituto i+12 and two with information on the innovation area and the Ethics Committee. We also prepared a Welcome Manual for new professionals joining Instituto i+12.

As in previous years, during 2016 we sent satisfaction surveys to management and the professionals who make up Instituto i+12. The findings enabled us to evaluate the quality of the work carried out by the management structure of Instituto i+12 in order to implement potential improvements.

I am pleased to say that the results presented in this report clearly show how the excellence of our scientific output has been consolidated.

During the last few years, both the volume of our scientific output and our cumulative impact factor have increased in general terms. In 2016, the research staff of i+12 published 711 articles, editorials, and reviews in indexed scientific journals, of which 23% were first-decile journals, with a cumulative impact factor of 3,399.732 and a mean impact factor of 4.781. Similarly, during 2016, our researchers obtained funding for more than 27 research projects through both public and private calls at national and international level. In addition, 201 clinical trials and observational studies were contracted. The number of theses directed and defended by members of Instituto i+12 also increased, as did the number of clinical practice guidelines published.

Our awareness of the need to establish measures and mechanisms to stimulate and boost research activity in Instituto i+12 has led us once again to publish intramural aid calls for intensification of activity in research and innovation aimed at various professional profiles. Similarly, in 2016, calls were made to obtain grants for the incorporation of trainees into research groups. A call was also published for a grant aimed at incorporating a Head of Residents/Researcher. The call was praised and valued in the audit report for the renewal of our accreditation.

Another highly relevant aspect during 2016 was the consolidation of and increase in the activity of our Innovation Support Unit (ISU). Thanks to the good work carried out by the members of the ISU, we now have a powerful and growing portfolio of innovation projects, with several patents ready for use, and we were able to sign a transfer agreement. It is noteworthy that, in 2016, a major effort was again made to increase awareness of the ISU throughout the hospital by means of information sessions in the various services.

Once again, I would like to thank each and every one of the professionals who make up Instituto i+12 for their untiring dedication and daily effort, which, year after year, generate excellent results, as borne out by the main scientific indicators.

Thank you very much.

**Dr. Joaquín Arenas Barbero**  
Scientific Director of Instituto i+12

# PARTICIPATING ENTITIES

The Instituto de Investigación Hospital 12 de Octubre (Instituto i+12) was constituted in 2009 through the association of various entities with common interests. The entities that currently make up the Institute are:



# ORGANIZATIONAL STRUCTURE

## Governing Bodies

**Governing Council**

**Delegated Commission**

**i+12 Institute Directorate**

**i+12 Institute Sub-Directorate**

## Advisory Bodies

**Scientific Advisory Board**

**Research Committee**

## Ethics Committees

**Clinical Research Ethics Committee (CREC)**

**Ethics Committee for Animal Welfare**

**Management and Administration**

**Financial-Administrative Management Area**

**Scientific Management Area**

**General Organizational Structure of Instituto i+12**

The organizational structure of Instituto i+12 includes governing, management, advisory, and operational bodies. The main governing body is the Governing Council, which includes the Patronato de la Fundación para la Investigación Biomédica del Hospital 12 de Octubre.

All of the entities making up the Instituto i+12 are included in both the Governing Council and the Delegated Commission.

As the management body of the Institute, the Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120) is included in the general organizational structure of Instituto i+12 and is complemented by the Scientific Management Area.

## GOVERNING BODIES

### Governing Council

#### CHAIR - Manuel Molina Muñoz

Vice-Councillor, Servicio Madrileño de Salud.

#### First Vice-Chair - Ignacio Lizasoain Hernández

Vice-Rector of Research, Representative of Universidad Complutense de Madrid (UCM).

#### Second Vice-Chair - Rafael Garesse Alarcón

Vice-Rector of Research and Innovation, Representative of Universidad Autónoma de Madrid (UAM).

#### Members

**Carmen Martínez de Pancorbo González**  
Managing Director, Hospital Universitario 12 de Octubre.

**Fernando Mejía Estebaranz**  
Trustee, Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120).

**José Nieves González**  
Trustee, FIBH120.

**Mª del Puy Goyache Goñi**  
Trustee, FIBH120.

**Mª Ángeles Moro Sánchez**  
Trustee, FIBH120.

**Mª Andión Goñi Oлагua**  
Trustee, FIBH120.

**Emilia Sánchez Chamorro**  
Trustee, FIBH120.

**Enrique Moreno González**  
Trustee, FIBH120.

**Secretary - Mª del Mar López Martín**  
Director of FIBH120.

## Delegated Commission

#### CHAIR - Carmen Martínez de Pancorbo González

Managing Director, Hospital Universitario 12 de Octubre.

#### Members

**Joaquín Arenas Barbero**  
Director, Instituto de Investigación Hospital 12 de Octubre (i+12).

**Fernando Mejía Estebaranz**  
Representative, Hospital Universitario 12 de Octubre.

**José Nieves González**  
Representative, Hospital Universitario 12 de Octubre.

**José Luis Álvarez-Sala Walther**  
Representative, UCM.

**José Manuel Cuevra Marcos**  
Representative, UAM.

#### Secretary - Mª del Mar López Martín

Director, FIBH120.

**Jesús Mª Paramio González**

Representative of CIEMAT.

**D. Sergio Calvo Fernández**

Representative of UE.

**José Luis Pablos Álvarez**

Representative, Research Committee i+12.

**Agustín Gómez de la Cámara**

Representative, Research Committee i+12.

## i+12 Institute Directorate

#### Joaquín Arenas Barbero

Director, Instituto de Investigación Hospital 12 de Octubre (i+12).

## i+12 Institute Sub-Directorate

#### Juan Carlos Leza Cerro

Coordinator, Neuroscience and Mental Health Research Area,  
Instituto de Investigación Hospital 12 de Octubre (i+12).  
Professor. Department of Pharmacology. Medical School. UCM.

## ADVISORY BODIES

### Scientific Advisory Board

#### Alvar Agustí García-Navarro

Director of the Chest Institute, Hospital Clínic, Barcelona.

#### Antonio L. Andreu Periz

Manager of the Instituto Catalán de la Salud for the Southern Metropolitan Area, Barcelona.

#### Joaquín Vicente Arribas López

Coordinator of the Medical Oncology Research Program, Institut de Recerca Vall d'Hebron, Barcelona.

#### Carmen Ayuso García

Scientific Director, Instituto de Investigación Sanitaria de la Fundación Jiménez Díaz, Madrid.

#### Rafael Bañares Cañizares

Head of Digestive Medicine, Hospital General Universitario Gregorio Marañón, Madrid.

#### José Fernández Piqueras

Professor of Genetics, Universidad Autónoma de Madrid, Department of Biology, Centro de Biología Molecular Severo Ochoa, CSIC/UAM, Madrid.

#### Ángel Gil de Miguel

Vice-Rector of Cooperation in Development, Volunteering, and Institutional Relations, Universidad Rey Juan Carlos, Madrid.

#### Isabel Illa Sendra

Professor of Neurology, Universitat Autònoma de Barcelona, Neuromuscular Disease Unit (Neurology Department), Hospital de la Santa Creu i Sant Pau, Barcelona.

#### Santiago Moreno Guillén

Head of Infectious Diseases, Hospital Ramón y Cajal, Madrid.

#### Jerónimo Pachón Díaz

Professor of the University of Sevilla with an associated position at Hospital Universitario Virgen del Rocío, Sevilla.

#### Eduard Vieta Pascual

CIBERSAM Scientific Director. Head of the Service of Psychiatry and Psychology, Hospital Clínic Barcelona. Professor Barcelona University.

## Research Committee

#### CHAIR - Joaquín Arenas Barbero

Director, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### José Luis Rodríguez Peralto

Coordinator of the Cancer Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Manuel Praga Terente

Coordinator of the Chronic Diseases and Systemic Pathologies Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Miguel Ángel Martín Casanueva

Coordinator of the Rare and Genetic Diseases Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Agustín Gómez de la Cámara

Coordinator of the Epidemiology and Evaluation of Health Technologies and Services and Training Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Luis Carlos Jiménez Romero

Coordinator of the Transplant, Tissue Engineering, and Regenerative Medicine Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Secretary - María López Berlanga

Quality Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### José Luis Pablos Álvarez

Coordinator of the Inflammatory Diseases and Immune Disorders Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Rafael Delgado Vázquez

Coordinator of the Infectious Diseases and AIDS Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Juan Carlos Leza Cerro

Coordinator, Neuroscience and Mental Health Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

#### Eva Mª Carro Díaz

Head of the Neurodegenerative Diseases Group, Instituto de Investigación Hospital 12 de Octubre (i+12).

## ETHICS COMMITTEES

### Clinical Research Ethics Committee (CREC)

#### CHAIR - Mª del Puy Goyache Goñi

Staff Pharmacist, Hospital Pharmacy.

#### Vice-Chair - Carmen Jiménez López-Guarch

Staff Physician, Cardiology.

#### Secretary - María Ugalde Díez

Doctor of Biological Science.

#### Members

#### Mª Luisa Albelda de la Haza

Law Graduate.

#### Mª de las Mercedes Catalán Gómez

Physician, Intensive Care.

#### Eva Mª Ciruelos Gil

Physician, Oncology.

#### Rafael Delgado Vázquez

Head of the Molecular Microbiology Department.

#### Eduardo Gutiérrez Martínez

Physician, Nephrology.

#### Mª del Pilar Martínez Sánchez

Physician, Hematology.

#### Francisco Javier Mazuecos Gómez

Administrative Assistant, Endoscopy.

#### César Minué Lorenzo

Family Physician, Primary Care.

#### Teresa Yolanda Revilla Ostolaza

Physician, Radiology.

#### Gloria Orejón de Luna

Pediatrician, Primary Care.

#### Montserrat Pilas Pérez

Nurse (University Diploma in Nursing).

#### Santiago Ponce Aix

Physician, Oncology.

#### Mª del Carmen Riesco Martínez

Physician, Oncology.

#### Yolanda Rodríguez Gil

Physician, Histopathology.

#### Roberto Rodríguez Jiménez

Physician, Psychiatry.

#### Belén Ruiz Antoran

Clinical Pharmacologist (Hospital Universitario Puerta de Hierro).

#### Raquel Siguín Gómez

Pharmacist, Primary Care.

#### Rosa Mª Vega Víaña

SCReN Clinical Trials Platform.

#### Alberto Villarejo Galende

Physician, Neurology.

#### Mª del Pilar Hernández Suárez

Nurse (University Diploma in Nursing).

## Ethics Committee for Animal Welfare

### **CHAIR - José Luis Pablos Álvarez**

*Representative of the Research Committee, Instituto de Investigación i+12.*

### **Members**

#### **Miguel Ángel Martín Casanueva**

*Head of Translational Research Platforms.*

#### **Ángel Tejido Sánchez**

*Representative of the Academic Committee, H120.*

#### **María López Berlanga**

*Quality Coordinator, Instituto de Investigación i+12.*

### **Secretary - Montserrat Grau Sanz**

*Specialist in Animal Welfare.*

## MANAGEMENT AND ADMINISTRATION

### Financial-Administrative Management Area

**Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)**

#### **Head - Mª del Mar López Martín**

*Director, FIBH120.*

- Accounting Unit
- Project Follow-up Unit
- Billing, Private Management and Clinical Trials Unit
- Human Resources Unit
- Purchases Unit

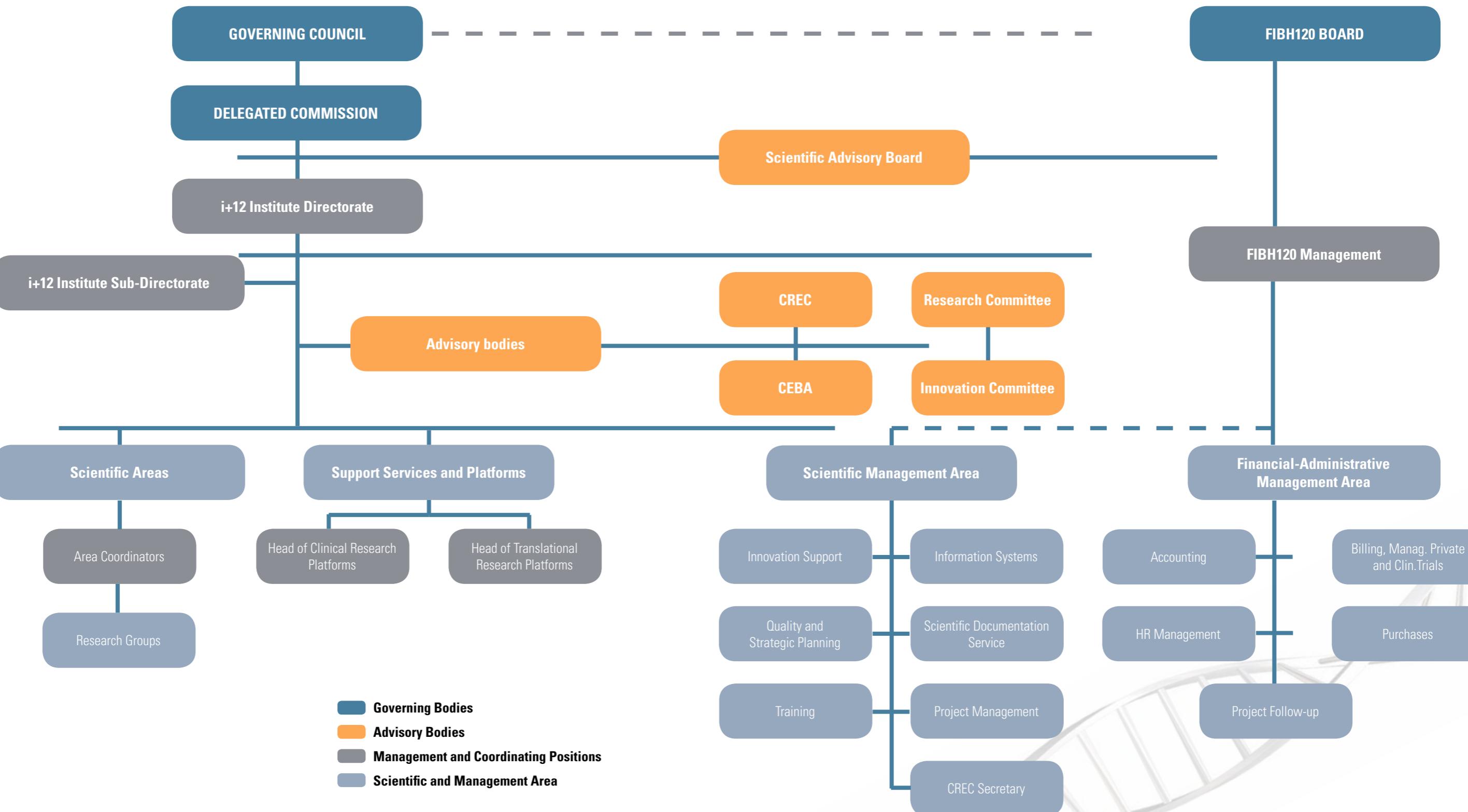
### Scientific Management Area

#### **Head - Joaquín Arenas Barbero**

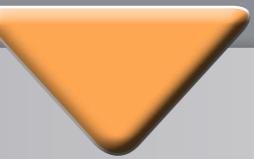
*Director, Instituto de Investigación Hospital 12 de Octubre (i+12).*

- Quality and Strategic Planning Unit
- Innovation Support Unit
- Training Unit
- Project Management Unit
- Information Systems Unit
- Technical Secretary, CREC
- Scientific Documentation Service

# GENERAL ORGANIZATIONAL STRUCTURE OF INSTITUTO i+12



# HUMAN AND TECHNOLOGICAL RESOURCES



## Human Resources

### Contracts for Researchers and Technicians

Care Staff who Benefited from Grants for  
Intensification of Research Activity

## Technological Resources

### Translational Research Support Platforms

Genomics Unit

Proteomics Unit

Cytometry and Confocal Microscopy Unit

Bioinformatics Unit

Animal Facility and Experimental Operating Rooms

### Clinical Research Support Platforms

Scientific Support Unit

Biobank

### Other Support Services at Instituto i+12

Scientific Documentation Service

Innovation Support Unit i+12



# HUMAN RESOURCES

The list of contracts for researchers and technicians funded by the different bodies and programs in Instituto de Investigación Hospital 12 de Octubre (i+12) that were active in 2016 are set out below:

<b>Management of Accredited Research Institutes</b>	
Managers of Accredited Research Institutes	1

<b>Researchers</b>	
Stabilization Program Contracts-ISCIII	4
Stabilization Program Contracts-MICINN	1
Researcher Contracts SNS-Miguel Servet-ISCIII	5
Juan Rodés Contracts	4
Researchers' Platform	9
Ciber Researchers	8
<b>TOTAL</b>	
	31

<b>Researchers Who Have Completed Specialized Training In Health Care</b>	
Río Hortega-ISCIII Researchers	4
Researchers Who Have Completed Specialized Training in Health Care-i+12	2
<b>TOTAL</b>	
	6

<b>Postdoctoral Researchers</b>	
Sara Borrell Contracts	4
Postdoctoral-MICINN Contracts	1
<b>TOTAL</b>	
	5

<b>Predoctoral Researchers</b>	
Predoctoral Researchers in Training in Health Research-ISCIII	1
Predoctoral Contracts for the Training of Doctoral Candidates-MINECO	1

<b>Researchers Assigned To Research Projects</b>	
Researchers Assigned to i+12 Projects	22
Researchers Assigned to ECM-i+12 Projects	32
Researchers Assigned to Public Projects	47
Researchers Assigned to Private Projects	34
<b>TOTAL</b>	
	135

<b>Support Technicians</b>	
Technician Stabilization Program-ISCIII Contracts	2
Research Support Technician SNS-ISCIII Contracts	7
Research Support Technicians-i+12	2
<b>TOTAL</b>	
	11

Contracts funded by public bodies and awarded in 2016 are set out below.

#### i-PFIS Contracts: Doctorates: IIS-Science and Health Technology Companies-ISCIII

Patricia Yagüe Sanz

#### PFIS Contracts. Predoctoral Training in Health Research-ISCIII

Isabel Tundidor Pérez

#### Miguel Servet Type I-ISCIII Contracts

Mª Esther Gallardo Pérez

#### Miguel Servet Type II-ISCIII Contracts

José Mª González Granado

Mª Jesús Morán Bermejo

#### Río Hortega-ISCIII Contracts

Ricardo Sánchez Pérez

Victoria Galán Sánchez-Seco

#### Juan Rodés-ISCIII Contracts

Andrés Labiano Fontcuberta

#### Study Extension Group-ISCIII

José Carlos Marín Gabriel

**Grants aimed at hiring research assistants and laboratory technicians cofunded by the European Social Fund via the Youth Employment Operational Program and Youth Employment Initiative (YEI)**

Jennifer Acebes Ripoll (LT)

Rocío Cubo Martínez (LT)

Mirella Gallego Hervás (LT)

Saúl Horta Herrera (LT)

Fátima Jara Rubio (LT)

Sandra Ergueta Carballo (RA)

**Grant for training in research for professionals who have undergone Specialized Training in Health Care - i+12**

Ricardo Sánchez Pérez

**Grant aimed at hiring a Head of Residents/Researcher in Instituto i+12**

David Rentero Martín

**Grant aimed at funding the contract for a Support Technician for the Proteomics Unit of Instituto i+12**

Inés García-Consuegra Galiana

**Grant aimed at funding the contract for a support technician for the Infectious Diseases Research Group of Instituto i+12**

Patricia Parra Aragón

**Grant aimed at funding the incorporation of research trainees in Instituto i+12**

Lourdes Domínguez Domínguez

Ray Antonio Manneh Kopp

Pedro Pablo Rodríguez Quesada

Carolina Rubio Martín

Mireia Santacreu Guerrero

**Call for grants associated with research projects that finalize in 2017 - i+12**

Daiana Guillén Vera

Inés Calonge Sanz

Pedro Mogollón Arroyo

Daniel Borrego Hernández

Clara Eugenia Calleja Fernández

Cristina Sánchez Carabias

Isabel Bravo-Ferrer Álvarez-Sala

Mª Elena Rodríguez García

Miguel Fernández de la Torre

Teresa Ariadna Martín Díaz

Leyla Blanco García

Elena Rodríguez Sánchez

Ana Peñas Pita da Veiga

**Call for grants associated with research projects that finalize after 2017 - i+12**

Salvador Pirris Borregas

Macarena de Vicente de la Cueva

Irene Gómez Manjón

Patricia Parra Aragón

Mª Jesús Pérez Lorenzo

Manuela Martín-Bejarano García

Almudena García Ortiz

Sara Asensio Peña

Mª José Borrero Cortes

Clara Heras Rubio



**CARE STAFF WHO BENEFITED FROM GRANTS FOR INTENSIFICATION OF RESEARCH ACTIVITY****Intensification of research activity - ISCIII**

Luis Gonzaga Paz-Ares Rodríguez  
Rocío García Carbonero

**Intensification of research activity - i+12**

Amado Andrés Belmonte  
Rosa Ayala Díaz  
Ruth Mª Barranco Jiménez  
Julián Benito León  
Agustín Blanco Echevarría  
Daniel Blázquez Gamero  
Daniel Castellano Gauna  
Fernando Chaves Sánchez  
Eva Mª Ciruelos Gil  
Pilar Escribano Subias  
Adolfo Fontenla Cerezuela  
María Galindo Izquierdo  
Carlos Grande García  
Felipe Hernández Hernández  
Ignacio Herraiz García  
Juan José Lahuerta Palacios  
María López Gil  
Francisco López Medrano  
Roberto Martín Asenjo  
Joaquín Martínez López  
Pilar Martínez Sánchez

Montserrat Morales Conejo

Alicia de Pablo Gafas

José Luis Pablos Álvarez

Carmen Rosa Pallás Alonso

David Andrés Pérez Martínez

Manuel Praga Terente

Federico Pulido Ortega

Roberto Rodríguez Jiménez

Pablo Rojo Conejo

Rafael Rubio García

Rafael Salguero Bodes

Antonio Serrano Hernández

Jorge Solís Martín

Alberto Villarejo Galende

**Intensification of research activity in nursing - i+12**

Juliana Acuña Muga  
Candelas López López  
Violeta Pajero Otero  
Iluminada Palomino Sánchez  
Santiago Pérez García

**Line for the Intensification of research activity for non-medical specialist technical health care personnel for the development of an innovation project - i+12**

Antonio Martín González



# TECHNOLOGICAL RESOURCES

The Research Support Services cooperate in the research carried out by groups from Instituto i+12. Each service maintains latest-generation technologies and infrastructures in their area and is designed to absorb new technologies as they appear and are developed.

The services are available for all the users and are highly competitive. The units themselves carry out research projects together with internal and external groups, thus making it possible to improve the technologies and methodologies used.

The Research Support Services that the Instituto i+12 provides for its researchers are set out below.

## Translational Research Support Platforms

### GENOMICS UNIT

The Genomics Unit of Instituto i+12 has 2 laboratories in the Research Center of Hospital Universitario 12 de Octubre and in the Outpatient Activity Center. The primary objective of the Genomics Unit is to provide research support and scientific advice to the various research groups of Instituto i+12. It has technologically advanced equipment for the development and updating of technology of interest for research staff. The services offered can be used researchers from Instituto i+12 and other public and private institutions.

**Coordinator:** Francisco Javier Fernández Martínez

**Technical manager:** Juan Carlos Rubio Muñoz

### PROTEOMICS UNIT

Instituto i+12 has been supported by the Proteomics Unit since 2007. The primary objectives of the Proteomics Unit are to provide services and support to researchers and to promote scientific research and technological development in the field of proteomics.

Proteomics provides a set of very powerful tools for the study of molecular pathogenesis of diseases and identification of specific biomarkers that make it possible to diagnose, classify, and predict disease. It can also be used to define new therapeutic targets or predict the response to drugs.

The Proteomics Unit provides various services to researchers, as well as a series of seminars and training courses.

The proteomics laboratory offers a wide range of protein analysis services, many of which require services from external providers. In addition, most of these services require close technical-scientific cooperation with the user to determine the best analytical strategy to use.

**Technical manager:** Inés García-Consuegra Galiana

### CYTOMETRY AND CONFOCAL MICROSCOPY UNIT

Instituto i+12 is supported by the Cytometry and Confocal Microscopy Unit of Hospital Universitario 12 de Octubre. The unit is located in the Hospital Research Center.

Flow cytometry makes it possible to simultaneously measure various optical characteristics of each cell or particle in a suspension. Individual particles are measured based on the dispersion of light and emission of fluorescence from particles that are illuminated by a light source. Flow cytometry is a fast, sensitive, and semiquantitative method for the simultaneous characterization of various parameters of the same cell in a suspension.

The Cytometry and Confocal Microscopy Unit provides advice to research groups on the development, updating, and analysis of new protocols for the different teams, as well as specific training for new users.

**Technical manager:** Gabriel Criado Carrasco

### BIOINFORMATICS UNIT

The Bioinformatics Unit of Instituto i+12 was created to meet the increasing demand for processing and analysis of data from the new massive sequencing platforms (Next-Generation Sequencing, NGS).

Its main functions are as follows:

- Provide the necessary support for analysis of NGS results.
- Supervision of the servers of the sequencers, computing cluster, and data storage system.
- Collaborate with various users in the application and development of potentially useful bioinformatics tools.

**Coordinator:** Francisco Javier Fernández Martínez

**Technical manager:** Aitor Delmiro Magdalena

### ANIMAL FACILITY AND EXPERIMENTAL OPERATING ROOMS

Instituto i+12 has an Animal Facility and Experimental Operating Rooms provided by Hospital Universitario 12 de Octubre to provide services to researchers from the Instituto. The Animal Facility and Experimental Operating Rooms are part of the Animal Service.

The Animal Facility and Experimental Operating Rooms are a Research Support and Teaching service that aims to ensure that all animal models are of the highest quality and guarantee animal welfare. The service is aimed at researchers from Instituto i+12 other centers.

The Unit's mission is to provide support to research and teaching activities associated with the use of experimental animals that justify the objectives sought, taking into account appropriateness in terms of benefits.

**Technical manager:** Montserrat Grau Sanz

## Clinical Research Support Platforms

### SCIENTIFIC SUPPORT UNIT

The primary mission of the Scientific Support Unit of Instituto i+12 is as follows:

- Provide scientific support in methodology, epidemiology, biostatistics, and IT for activities aimed at research, scientific output, and clinical practice (B.O.E. 18/05/91).
- Coordination, support, and scientific consultancy services for the management, updating, and improvement of research projects from official public national and international calls, Technical Secretariat (Steering Committee Regulation, 2003) and hospital clinical trials, Technical Secretariat, CEIC (Steering Committee Regulation, January 2001).
- Development of research work in health sciences. Development of procedures and methods that explore and pave the way for supporting research. Development and exploration in specific subject areas by means of coordination with other centers, units, and diverse research structures, both in Spain

and abroad. RETICs, CIBER, Plataforma Española de Ensayos Clínicos (SCReN, Spanish Clinical Trials Platform), agencies, and other international bodies.

- Collaboration, teaching, and internal/external consultancy services with bodies such as Instituto de Salud Carlos III, General Directorate for Research, Health Infrastructures and Training of Consejería de Sanidad de la Comunidad de Madrid, Ministry of Health, Social Services, and Equality (Advisory Council of the Ministry), and universities, particularly Universidad Complutense de Madrid.

**Headed by:** Agustín Gómez de la Cámara

### BIOBANK

The i+12 Biobank is a cross-sectional platform of Instituto i+12 that acts as a scientific support service to provide high-quality human samples to the scientific community for use in biomedical research. The Biobank guarantees the storage of the biological samples and searches for all means possible to preserve the

integrity of the samples. It also establishes the systems necessary to protect data associated with human samples according to the legal criteria in force for protection of the rights of donors.

The i+12 Biobank is authorized by Consejería de Sanidad

de la Comunidad de Madrid for purposes of scientific research and processing of human biological samples. Registration no. B.0000657 in the National Biobank Register (ISCIII), according to RD 1716/2011.

**Technical coordinator:** Alicia Maroto Pérez

## Other Support Services at Instituto i+12

### SCIENTIFIC DOCUMENTATION SERVICE

Researchers at Instituto i+12 are supported by the Library of Hospital Universitario 12 de Octubre as a scientific documentation service. The Library provides access to information resources (complete texts from scientific journals and electronic books, databases, scientific output) and library services (loans, consultations, bibliographic searches). Its reading rooms offer a place to work and study.

The Library's online platform, the Virtual Library of Hospital Universitario 12 de Octubre, provides all users with the services and sources available to facilitate care work, teaching and research. The Virtual Library is accessed via a personal key and password.

The main services offered by the Library are as follows: requests for articles (requests to other health service libraries for articles not available at our Library), requests for bibliographic searches, training of users in bibliographic searches, and access to information resources in coordination with the Continuing Training Service and Academic Committee, consultations with respect to impact factors and quartiles of scientific publications, book loans, access to reading rooms and Internet in the computer suite.

**Headed by:** José Manuel Estrada Lorenzo.

### INNOVATION SUPPORT UNIT i+12

The Innovation Support Unit i+12 was created in Hospital Universitario 12 de Octubre and aims to develop innovation activities under conditions of excellence and quality, thus boosting joint efforts with other research groups and centers.

The Innovation Support Unit i+12 aims to channel innovative ideas in the different phases of the innovation funnel, from when the idea emerges until it comes onto the market.

The philosophy of the Innovation Support Unit i+12 is one of work in an environment of open innovation, in which both patients and suppliers/industry can participate in the innovation process alongside staff from Instituto i+12.

The Unit is composed of a multidisciplinary team that provides the necessary guidance to ensure that ideas can lead to products or services that generate new solutions.

The Innovation Support Unit i+12 is a member of the Healthcare and Medical Technology Innovation Platform (ITEMAS), which is sponsored by the Instituto de Salud Carlos III (ISCIII) as a component of its integral vision of innovation in its environment.

The functions performed in the Innovation Support Unit of Instituto i+12 are organized into 3 wide areas of activity:

#### 1. Legal protection of innovation:

- Promoting a culture of innovation in i+12.
- Reporting on the link between techniques and the innovative idea identified.
- Application, follow-up of applications, registration, and maintenance of inventions (patents, utility models).
- Application, follow-up, and registration commercial trademarks (Nuhoo+12, Sepir+12).

- Monitoring of technology in the i+12 environment.

- Definition and guidance in strategies for protection of IP.

#### 2. Transfer and marketing:

- Search for and identification of license holders for the invention portfolio of i+12.
- Attendance at BROKERAGE events.
- Publicity of the technological advantages of inventions from i+12, and presentation thereof on the European TECHNOLOGY TRANSFER EEN and ITEMAS Platform.
- Drafting of licensing agreements, joint ownership of IP, transfer of technology, and R&D&i agreements with companies.
- Dissemination of Innovation Support Unit i+12 activities at national and international events.

- Search for synergies with other networks and alliances for innovation.

#### 3. Training and search for funding:

- Organization of training actions in innovation (courses, seminars, and pearls of innovation).
- Organization of institutional 1-day courses.
- Support in the presentation of proposals to calls in health care innovation.
- Search for potential partners for participation in joint projects in the framework of the H2020 program.
- Identification and search for public/private funding applicable to our setting.
- Search for public purchasing opportunities in innovation.

**Headed by:** María López Berlanga.

# RESEARCH

# ACTIVITY

Research Projects

Clinical Trials

Participation in Collaborative Networks

**Collaborative Research Networks (RETICS)**

**Research Support Platforms in Health  
Science and Technology**

**Networked Biomedical Research Groups (CIBER)**

**Other Networks and Collectives**



# RESEARCH PROJECTS

Research in Instituto i+12 is divided into 8 Research Areas, with a coordinator for each area, which in turn is formed by various research groups headed by a researcher or coordinator. In all, Instituto i+12 is home to 47 research groups.

The following table details the 8 areas and the number of research projects active in 2016 and managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH12O):

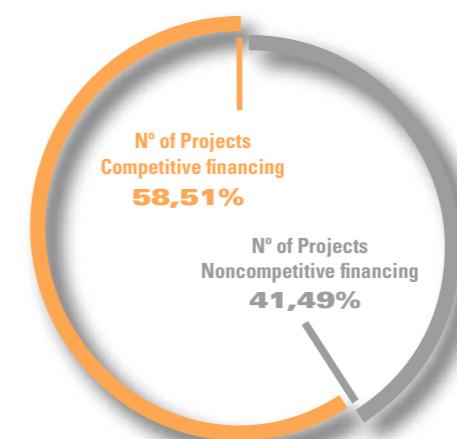
Research area	Active Projects
Cancer	77
Chronic Diseases and Systemic Pathologies	29
Rare and Genetic Diseases	22
Epidemiology and Evaluation of Health Technologies and Services	10
Transplant, Tissue Engineering, and Regenerative Medicine	11
Inflammatory Diseases and Immune Disorders	13
Infectious Diseases - AIDS	21
Neuroscience and Mental Health	26
Associated Clinical Researchers/Groups	20
<b>229</b>	

The distribution of active projects according to the relevant funding body is shown below.

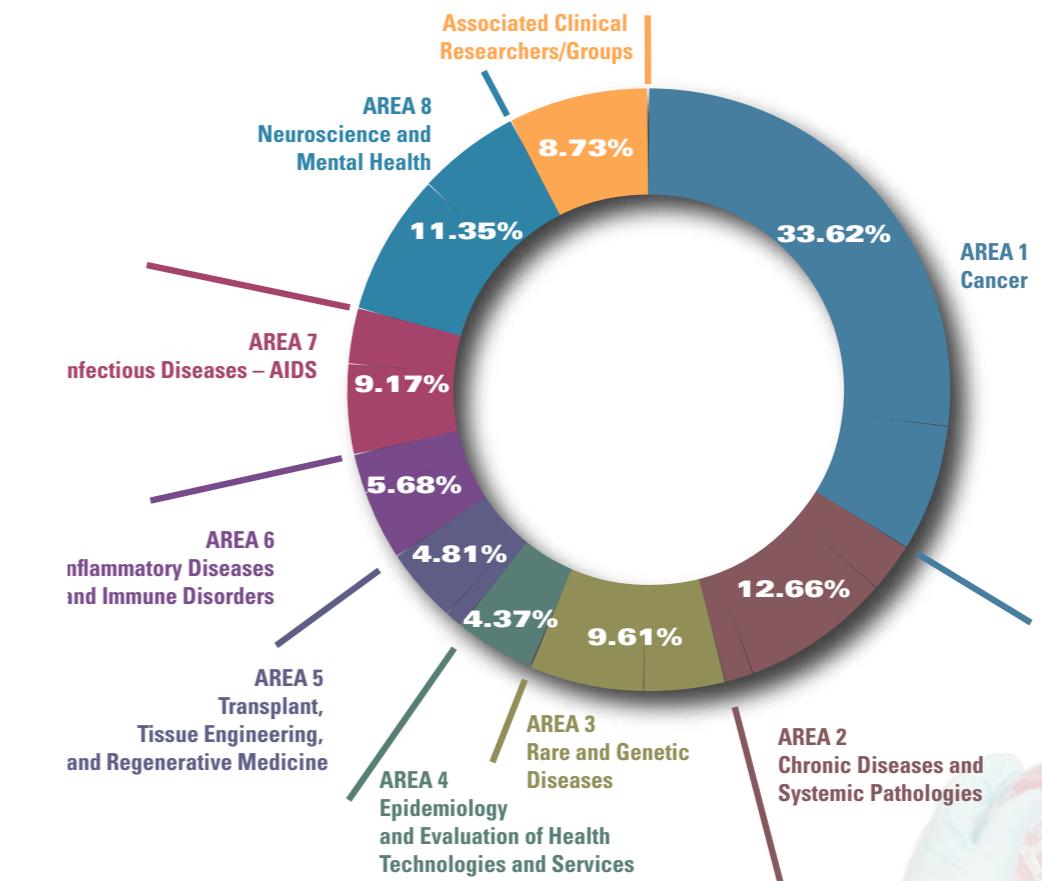
Funding body	Active projects
Instituto de Salud Carlos III (ISCIII)	82
Fundación Mutua Madrileña (FMM)	27
Fundación Científica Asociación Española Contra el Cáncer	4
Fundación MAPFRE Medicina (FMAPFRE)	3
Ministerio de Economía y Competitividad (MINECO)	3
European Union	3
Fundación Eugenio Rodríguez Pascual	2
Fundación SENEIRO	2
Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)	2
Consejo de Seguridad Nuclear	1
FIPSE	1
Fundación Alicia Koplowitz	1
Fundación Marqués de Valdecilla	1
Fundación Ramón Areces	1
University of Miami	1
Other (noncompetitive)	95
<b>229</b>	

The following graph shows the distribution of projects active in 2016 according to the type of funding.

**Projects managed by FIBH12O**



The following graph shows the distribution of projects active in 2016 by research area.



# CLINICAL TRIALS

A total of 201 clinical trials were contracted in 2016. Of these, 179 correspond to consolidated or emerging research groups from Instituto i+12, whereas the remaining 22 correspond to associated clinical researchers/groups.

The following table shows the number of clinical trials by area and research group.

Area	Number	Area	Number		
<b>Area 1. Cancer</b>					
Translational Haematology	24	<b>Area 6. Inflammatory Diseases and Immune Disorders</b>			
Neuro-Oncology	5	Asthma and Immunoallergic Diseases	6		
Cutaneous Oncology	2	Inflammatory and Autoimmune Diseases	11		
Clinical-Translational Oncology	63	Immunodeficiencies and Immunology of Transplants	4		
Cellular and Molecular Oncology	19				
<b>Area 2. Chronic Diseases and Systemic Pathologies</b>					
Cardiovascular Diseases	9	<b>Area 7. Infectious Disease and AIDS</b>			
Respiratory Diseases	4	Virology-HIV/AIDS	6		
Bone Metabolism, Diabetes, and Nutrition	1	Infectious Pathologies	6		
Perinatal Medicine	1				
Clinical Nephrology	4	<b>Area 8. Neuroscience and Mental Health</b>			
<b>Area 4. Epidemiology and Evaluation of Health Technologies and Services</b>					
Maternal and Infant Health	1	Neurodegenerative Diseases	5		
<b>Area 5. Transplant, Tissue Engineering, and Regenerative Medicine</b>					
Organ Transplant and Infection in the Critical Patient	2	Affective Disorders and Psychosis	1		
Kidney Transplant	4	Neurotraumatology and Subarachnoid Haemorrhage	1		
<b>Total</b>	<b>179</b>				
<b>Other researchers</b>	<b>22</b>				
<b>TOTAL</b>	<b>201</b>				

The following table shows the distribution of clinical trials and studies contracted in 2016 according to the type of research.

TRIALS/STUDIES	NUMBER
PHASE 0	2
PHASE I	26
CLINICAL TRIALS WITH DRUGS	57
PHASE II	64
PHASE III	3
CLINICAL TRIALS WITH HEALTH CARE PRODUCTS	2
EXTENSION/OTHER	2
<b>TOTAL</b>	<b>156</b>
<b>OBSERVATIONAL STUDIES</b>	<b>45</b>
<b>TOTAL</b>	<b>201</b>

The following graph shows the distribution of clinical trials with drugs contracted during 2016.



# PARTICIPATION IN COLLABORATIVE NETWORKS

## Collaborative Research Networks (RETICS)

In 2016, up to 15 research groups from Instituto i+12 participated in collaborative research networks.

Network	Participating groups	Network	Participating groups
<b>Red Española de Investigación en Patología Infecciosa</b>	Molecular Epidemiology of Hospital and Emerging Infections - Fernando Chaves Sánchez: Principal Investigator - <b>RD12/0015/0009</b> . Infectious Diseases - José Mª Aguado García: member of the research team of project RD12/0015/0009.	<b>Red de SIDA</b>	Virology-HIV/AIDS - Rafael Rubio García: Principal Investigator - <b>RD12/0017/0035</b> . Immunodeficiencies and Immunology of Transplants - Estela Paz Artal: member of the research team of project RD12/0017/0035.
<b>Red de Investigación en Inflamación y Enfermedades Reumáticas</b>	Inflammatory and Autoimmune Diseases - José Luis Pablos Álvarez: Principal Investigator and Network Coordinator - <b>RD12/0009/0001</b> . Molecular and Cellular Bases in Rheumatic Diseases - Rosa Mª Pérez Gomariz: member of the research team of project RD12/0009/0001.	<b>Red de Investigación Cardiovascular</b>	Cardiovascular Disease - Juan Francisco Delgado Jiménez: Principal Investigator - <b>RD12/0042/0015</b> .
<b>Red de Investigación en Salud Materno Infantil y del Desarrollo</b>	Maternal and Infant Health: - Carmen Rosa Pallás Alonso: Principal Investigator - <b>RD12/0026/0007</b> . - Juan Ignacio Sánchez Díaz: member of the research team of project RD12/0026/0007. Perinatal Medicine - Alberto Galindo Izquierdo: member of the research team of project RD12/0026/0007. Asthma and Immunoallergic Diseases - Mª Gloria García Hernández: member of the research team of project RD12/0026/0007. Immunodeficiencies and Immunology of Transplants - Estela Paz Artal: member of the research team of project RD12/0026/0007.	<b>Red de Investigación Renal</b>	Clinical Nephrology - Manuel Praga Terente: Principal Investigator - <b>RD12/0021/0029</b> . Kidney Transplant - Amado Andrés Belmonte: member of the research team of project RD12/0021/0029. Arterial Hypertension and Cardiovascular Risk - Luis Miguel Ruilope Urioste: member of the research team of project RD12/0021/0029. Tissue Engineering - Antonio Serrano Hernández: member of the research team of project RD12/0021/0029.
<b>SAMID</b>	<b>RIS</b>	<b>RedinRen</b>	<b>RTICC</b>

## Research Support Platforms in Health Science and Technology

Five research groups from Instituto i+12 participated in the Research Support Platforms in Health Science and Technology of ISCIII in 2016.

Platform	Participating groups
Plataforma de Biobancos	Cutaneous Oncology - José Luis Rodríguez Peralto: Principal Investigator - <b>PT13/0010/0054</b> .
Plataforma de Innovación en Tecnologías Médicas y Sanitarias	Neurodegenerative Diseases - Eva Mª Carro Díaz: Principal Investigator - <b>PT13/0006/0005</b> . Rare, Mitochondrial, and Neuromuscular Diseases - Miguel Ángel Martín Casanueva: member of the research team of project PT13/0006/0005. Respiratory Diseases - Carlos José Álvarez Martínez: member of the research team of project PT13/0006/0005.
Plataforma de Unidades de Investigación Clínica y Ensayos Clínicos	Clinical Epidemiology - Agustín Gómez de la Cámara: Principal Investigator - <b>PT13/0002/0012</b> .

BIOBANKS

ITEMAS

CLINICAL TRIALS

## Networked Biomedical Research Groups (CIBER)

Nine groups from the Instituto de Investigación Hospital 12 de Octubre (i+12) participated in CIBER during 2016.

CIBER	Participating groups
CIBER de Epidemiología y Salud Pública	Clinical Epidemiology - Agustín Gómez de la Cámara: Lead Project Researcher <b>CB06/02/0077</b> .
CIBER de Enfermedades Neurodegenerativas	Neurodegenerative Diseases - Félix Bermejo Pareja: Lead Project Researcher <b>CB06/05/0022</b> .
CIBER de Enfermedades Respiratorias	Respiratory Diseases - Francisco Pozo Rodríguez: Lead Project Researcher <b>CB06/06/0041</b> .
CIBER de Enfermedades Raras	Rare, Mitochondrial, and Neuromuscular Diseases - Miguel Ángel Martín Casanueva: Lead Project Researcher <b>CB06/07/0016</b> and Coordinator of the Mitochondrial Disease Area. Translational Energy Metabolism - José Manuel Cuezva Marcos: Lead Project Researcher <b>CB06/07/0017</b> . Pathophysiology of Mitochondrial Biogenesis - Rafael Garesse Alarcón: Lead Project Researcher <b>CB06/07/0013</b> .

CIBERESP

CIBERNED

CIBERES

CIBERER

**CIBER****Participating groups**

**CIBER de Salud Mental**  
Affective Disorders and Psychosis:  
Tomás Palomo Álvarez - Lead Project Researcher **CB07/09/0007**.  
Juan Carlos Leza Cerro - Lead Project Researcher **CB07/09/0026**.  
Addictions and Comorbidity Group - Gabriel Rubio Valladolid:  
participates in project CB07/09/0007.

**CIBERSAM****CIBER de Bioingeniería,  
Biomateriales y  
Nanomedicina**

Research on Intelligent Biomaterials - María Vallet Regi: Lead Project Researcher **CB06/01/1037**.

**CIBER-BBN****Other Networks and Collectives**

R&D&i activity between research groups in biosciences from the Autonomous Community of Madrid cofinanced with structural funds:

**MULTIMAT-CHALLENGE**

S2013/MIT-2862 - "Materiales Multifuncionales para los Retos de la Sociedad".

- Ana Isabel Flores de la Cal - Regenerative Medicine Group.

**MITOLAB**

S2010/BMD-2402 - "La Mitocondria y su Implicación en Patología Humana".

- José Manuel Cuezva Marcos - Translational Energy Metabolism Group.
- Rafael Garesse Alarcón - Pathophysiology of Mitochondrial Biogenesis Group.
- Miguel Ángel Martín Casanueva - Rare, Mitochondrial, and Neuromuscular Diseases Group.

**CANNAB**

S2010/BMD-2308 - "Neurofarmacología del Sistema Endocannabinoide: del Laboratorio a la Clínica".

- Juan Carlos Leza Cerro - Affective Disorders and Psychosis Group.
- Juan Manuel Sepúlveda Sánchez - Associated Clinical Researcher/Group.

**ITACA**

S2010/BMD-2374 - "Investigación Traslacional de Arritmias Cardiacas Secundarias a Canalopatías".

- Fernando Arribas Ynsaurriaga - Cardiovascular Diseases Group.

**COMPLEMENTO**

S2010/BMD-2316 - "Biología y Fisiopatología del Sistema del Complemento".

- Manuel Praga Terente - Clinical Nephrology Group.
- José Ramón Regueiro González-Barros - Lymphocyte Immunobiology Group.

**INMUNOTHERCAN**

S2010/BMD-2326 - "Inmunidad Tumoral e Inmunoterapia del Cáncer".

- Hernán Cortés-Funes Castro-Escalada - Clinical-Translational Oncology Group.

**RAPHYME**

S2010/BMD-2350 - "Artritis Reumatoide: Mecanismos Fisiopatológicos e Identificación de Posibles Dianas Terapéuticas".

- José Luis Pablos Álvarez - Clinical-Translational Oncology Group.

**NANODENDMED**

S2010/BMD-2351 - "Nanosistemas Dendríticos como Agentes y Vectores Terapéuticos en Distintas Aplicaciones Biomédicas".

- Pablo Luis Ortiz Romero - Cutaneous Oncology Group.

**PRIM-POL**

S2010/BMD-2361 - "Una Nueva DNA Primasa/Polimerasa con un Posible Papel en Envejecimiento".

- Cristina Ugalde Bilbao - Rare, Mitochondrial, and Neuromuscular Diseases Group.

**AGES**

S2010/BMD-2422 - "Ambiente y Genes en Esquizofrenia".

- Roberto Rodríguez Jiménez - Neurocognition Group.

# SCIENTIFIC ACTIVITY:

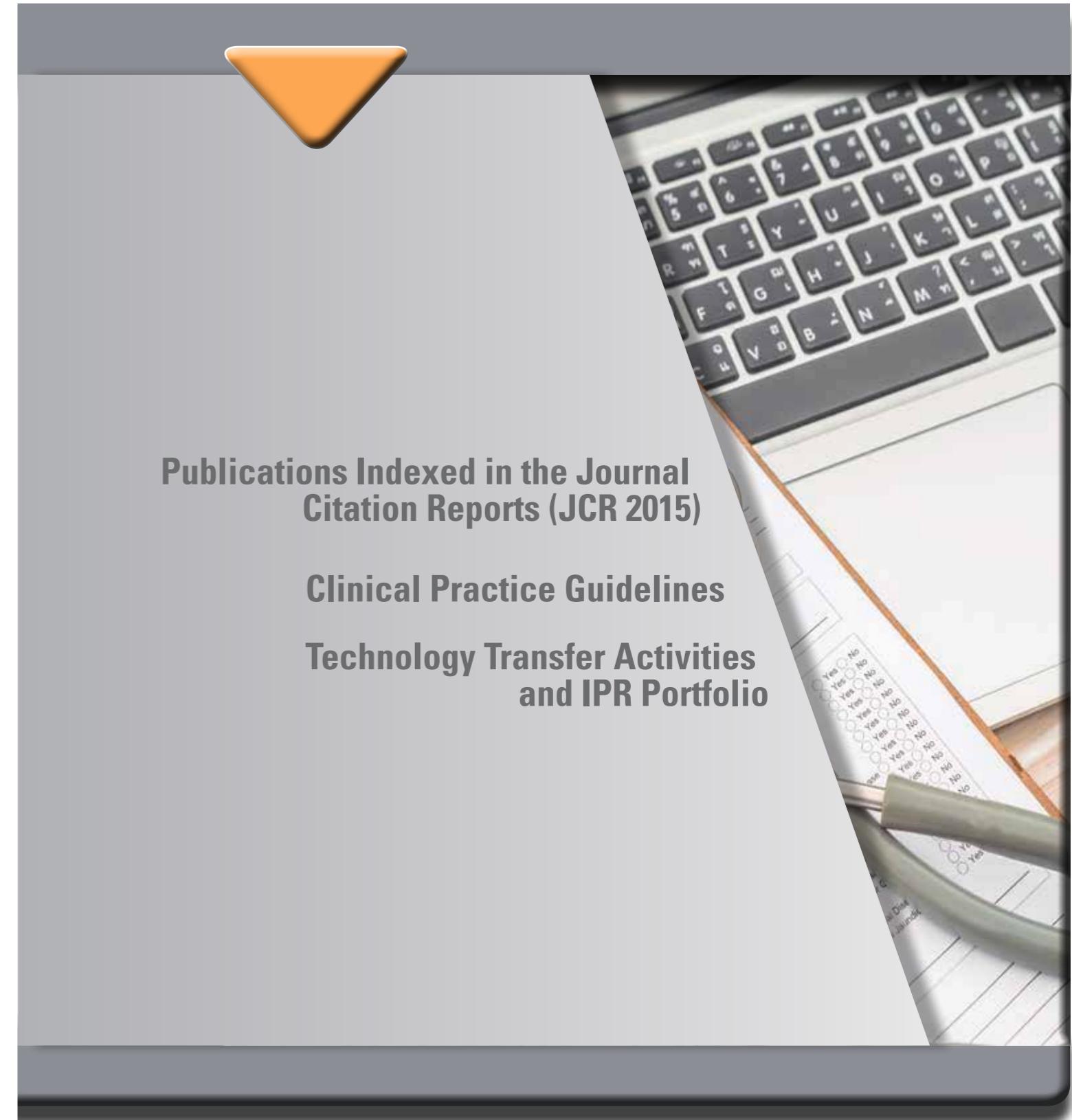
# RESULTS



**Publications Indexed in the Journal  
Citation Reports (JCR 2015)**

**Clinical Practice Guidelines**

**Technology Transfer Activities  
and IPR Portfolio**



# PUBLICATIONS INDEXED IN THE JOURNAL CITATION REPORTS (JCR 2015)



The Annual Scientific Report 2016 was drafted after analyzing journals indexed in the ISI Web of Knowledge for both science and social science. The JCR 2015 impact factor was applied.

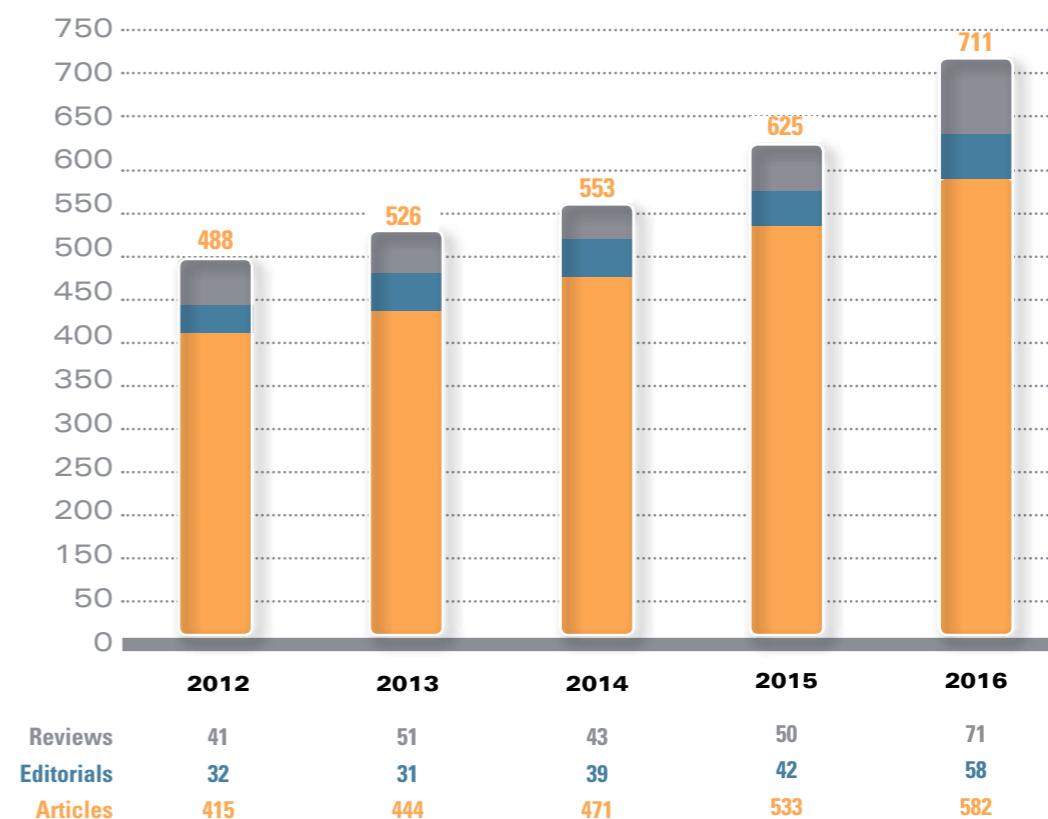
The sum total of the impact factor took into account only original articles, reviews, and editorials and excluded other types of publications (eg, reports to scientific meetings, letters to the editor) that, while shown in the report, do not contribute an impact factor to the total publications.

## Analysis

In recent years, the **total output** of Instituto i+12 has increased. The **total number of publications** by consolidated and emerging groups and by associated clinical researchers during 2016 was **711**, with a cumulative impact factor of **3,399.732** and a mean impact factor of **4.781**.

2016	Publications	Publications in indexed journals (JCR 2015)	$\Sigma$ FI (JCR 2015)	D1	$\Sigma$ FI D1 (JCR 2015)	Q1	$\Sigma$ FI Q1 (JCR 2015)	Q2	$\Sigma$ FI Q2 (JCR 2015)
Articles	645	582	2,747.708	144	1,457.348	332	2,236.153	119	313.769
Reviews	81	71	293.934	14	132.806	33	207.343	20	57.314
Editorials	63	58	358.090	17	252.067	27	303.955	13	32.257
<b>Total</b>	<b>789</b>	<b>711</b>	<b>3,399.732</b>	<b>175</b>	<b>1,842.221</b>	<b>392</b>	<b>2,747.451</b>	<b>152</b>	<b>403.340</b>

The progress of the total number of publications by Instituto i+12 during the last 5 years is shown below (2012-2016):



The number of publications in scientific journals<sup>1</sup> by researchers from the **consolidated and emerging groups** of Instituto i+12 in 2016 was **631**, with a cumulative impact factor of **3,126.444**. The impact factor was calculated using the *Journal Citation Reports (JCR)* from 2015 and taking into consideration only original articles, reviews, proceedings papers, and editorial material.

2016	Publications	Publications in indexed journals (JCR 2015)	$\Sigma$ FI (JCR 2015)	Q1 and Q2	$\Sigma$ FI Q1/Q2 (JCR 2015)	D1	$\Sigma$ FI D1 (JCR 2015)
Articles	568	521	2,565.137	406	2,387.827	127	1,360.016
Reviews	74	64	267.796	48	240.259	11	112.479
Editorials	50	46	293.511	35	278.678	14	202.528
<b>Total</b>	<b>692</b>	<b>631</b>	<b>3,126.444</b>	<b>489</b>	<b>2,906.764</b>	<b>152</b>	<b>1,675.023</b>

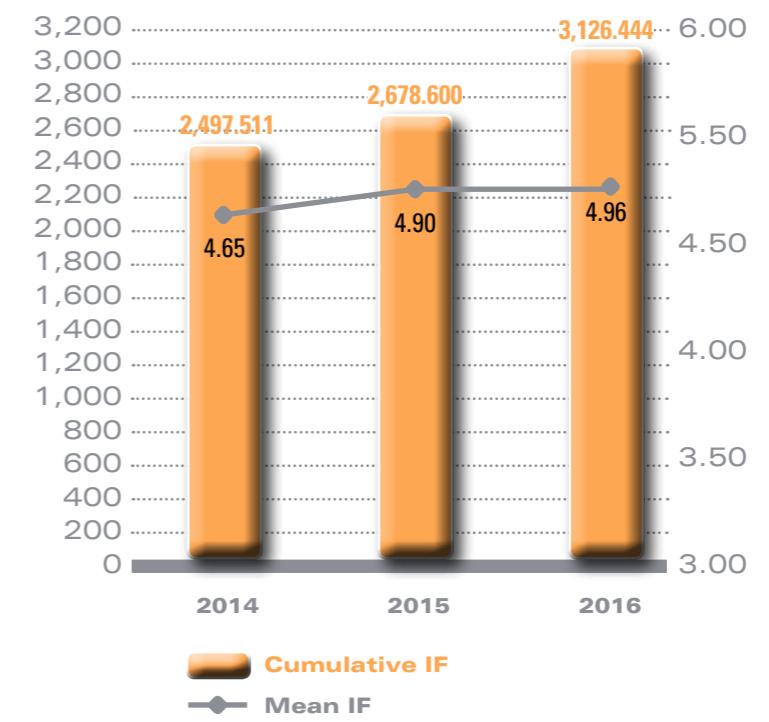
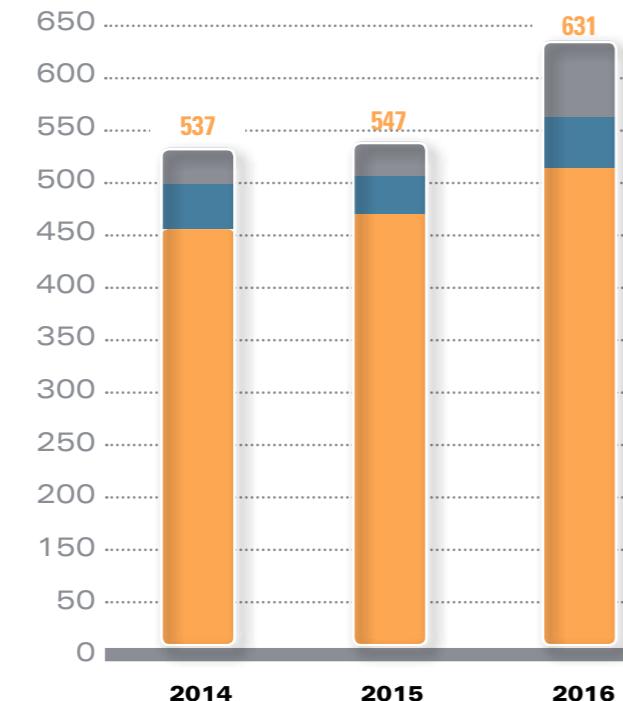
<sup>1</sup>Publications: The only document types selected from the ISI Web Of Knowledge were "Articles", "Reviews", and "Editorial Material".

Overall, 77.50% of the publications of Instituto i+12 are in first- and second-quartile journals (Q1 and Q2). In addition, 73.82% of the previous publications were in first-quartile journals (Q1), and of these, 42.11% were published in first-decile journals (D1).

#### Scientific output 2014-2016

Publications	No. 2014	$\Sigma$ FI (JCR 2013)	No. 2015	$\Sigma$ FI (JCR 2014)	No. 2016	$\Sigma$ FI (JCR 2015)
Articles	458	2,193.108	464	2,321.536	521	2,565.137
Reviews	41	178.334	48	194.622	64	267.796
Editorials	38	126.069	35	162.442	46	293.511
Total	537	2,497.511	547	2,678.600	631	3,126.444

	2014	2015	2016
Mean IF	4.65	4.90	4.96



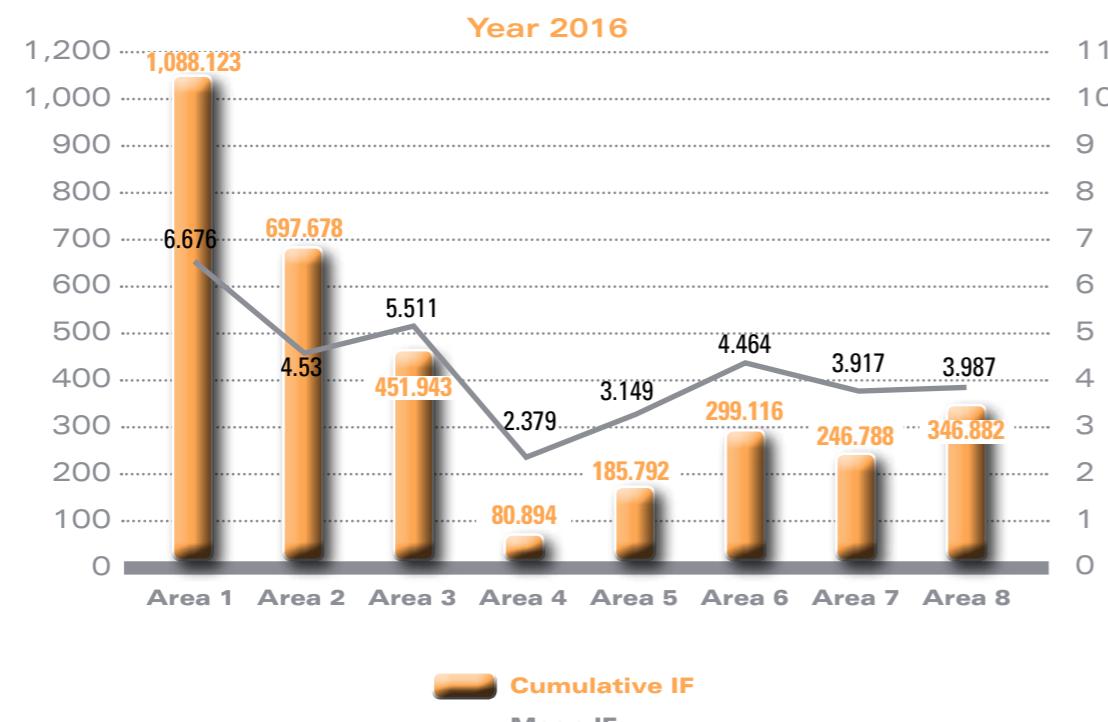
The distribution of the number of publications and impact factor by research area<sup>2</sup> is summarized in the following table.

Research Area	No. of publications 2016	$\Sigma$ IF (JCR 2015)	Mean IF (JCR 2015)
Area 1. Cancer	163	1,088.123	6.676
Area 2. Chronic Diseases and Systemic Pathologies	154	697.678	4.530
Area 3. Rare and Genetic Diseases	82	451.943	5.511
Area 4. Epidemiology and Evaluation of Health Technologies and Services	34	80.894	2.379
Area 5. Transplant, Tissue Engineering, and Regenerative Medicine	59	185.792	3.149
Area 6. Inflammatory Diseases and Immune Disorders	67	299.116	4.464
Area 7. Infectious Diseases and AIDS	63	246.788	3.917
Area 8. Neuroscience and Mental Health	87	346.882	3.987

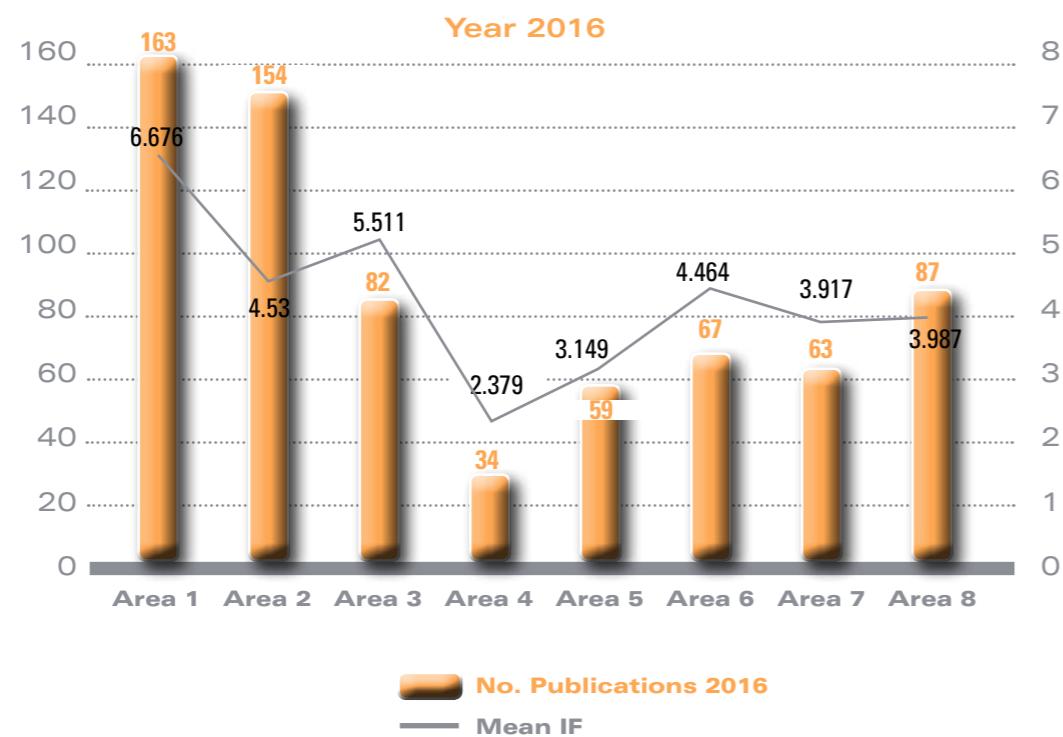
<sup>2</sup> The publications in which several research areas participate were taken into consideration in each area.



Graph showing the cumulative IF and mean IF for the 8 research areas of Instituto i+12.



Graph showing the total number of publications and mean IF for the 8 research areas of Instituto i+12.



The total number of publications and cumulative impact factor by research group<sup>3</sup> is shown in the following table.

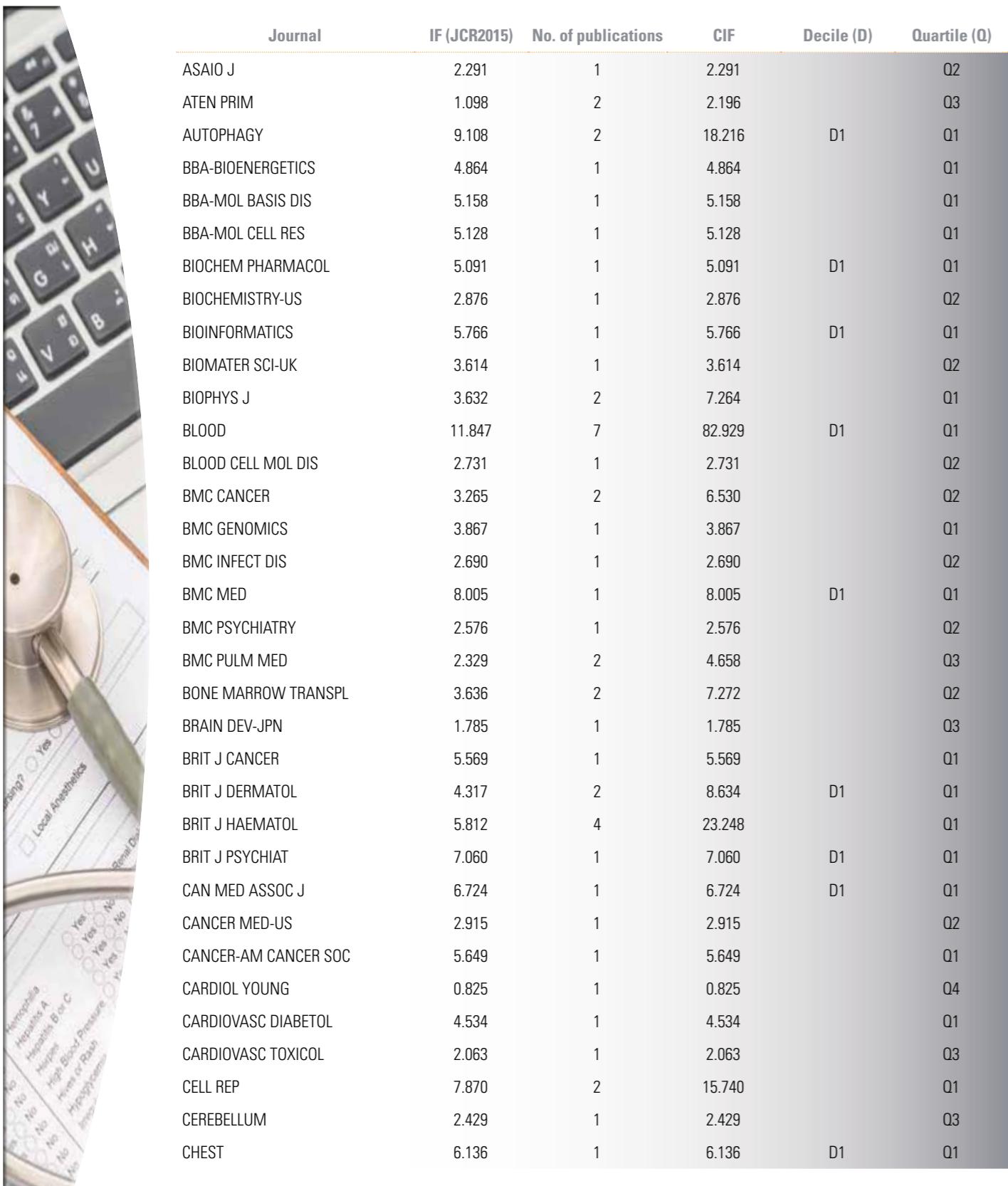
Research group	Publications	CIF
Clinical-Translational Oncology	62	435.936
Translational Haematology	39	325.504
Research on Physical Activity and Health	45	229.882
Cardiovascular Diseases	37	227.658
Rare, Mitochondrial, and Neuromuscular Diseases	32	186.925
Cellular and Molecular Oncology	24	174.933
Infectious Pathologies	35	139.522
Arterial Hypertension and Cardiovascular Risk	26	131.398
Inflammatory and Autoimmune Diseases	19	115.497
Neurodegenerative Diseases	29	111.079
Affective Disorders and Psychosis	17	95.728
Research on Intelligent Biomaterials	21	92.971
Inmunodeficiencies and Immunology of Transplants	30	86.017
Respiratory Diseases	24	81.721
Neurocognition	17	66.620
Virology-HIV/AIDS	16	64.945
Clinical Nephrology	19	64.935
Lymphocyte Immunobiology	8	62.609
Cutaneous Oncology	16	61.384
Abdominal Organ Transplant	15	55.126
Neuro-Oncology	16	53.211
Kidney Transplant	14	50.556
Pathophysiology of Mitochondrial Biogenesis	12	49.276
Clinical Epidemiology	15	45.832
Tissue Engineering	14	35.720
Bone Metabolism, Diabetes, and Nutrition	8	31.599
Addictions and Comorbidity	11	31.432
Aging, Neuroimmunology, and Nutrition	7	30.628
Organ Transplant and Infection in the Critical Patient	12	29.050
Translational Energy Metabolism	5	28.840
Maternal and Infant Health	14	28.338

<sup>3</sup> The publications in which several research areas participate were taken into consideration in each area.



The following table lists the journals and the total number of publications in 2016.

Research group	Publications	CIF	Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
Molecular Epidemiology of Hospital and Emerging Infections	8	27.539	ACTA BIOMATER	6.008	4	24.032	D1	Q1
Neurovascular	5	24.484	ACTA HAEMATOL-BASEL	1.053	1	1.053		Q4
Genetics and Inheritance	6	23.352	ACTA MEDICA PORT	0.304	1	0.304		Q4
Pulmonary Surfactant and Respiratory Diseases	5	21.613	ACTAS ESP PSIQUIATRI	0.813	2	1.626		Q4
Mitochondrial Membrane Laboratory	2	20.024	ACTAS UROL ESP	0.964	1	0.964		Q4
Porphyria, Haemochromatosis and Anemia	3	18.975	ADDICT BIOL	4.547	2	9.094	D1	Q1
Asthma and Immunoallergic Diseases	6	18.627	ADDICTION	4.972	1	4.972	D1	Q1
Neurotraumatology and Subarachnoid Haemorrhage	8	17.539	ADICCIONES	1.780	1	1.780		Q3
Molecular and Cellular Bases in Rheumatic Diseases	4	16.366	AGEING RES REV	7.526	1	7.526	D1	Q1
Regenerative Medicine	4	15.340	AGING-US	3.979	2	7.958		Q2
Perinatal Medicine	7	15.155	AIDS	4.407	1	4.407		Q1
Translational Research in Leishmaniasis	3	12.826	AIDS CARE	1.902	2	3.804		Q1
Translational Biophysics	1	8.315	ALLERGOL IMMUNOPATH	1.689	1	1.689		Q3
Research on Health Services and Results	4	3.729	ALLERGY ASTHMA IMMUN	2.309	1	2.309		Q3
Research on Cardiovascular Risk	1	2.955	ALZHEIMERS DEMENT	11.619	1	11.619	D1	Q1
Translational Research in Malaria	1	1.956	AM J DERMATOPATH	1.396	2	2.792		Q3
			AM J HEMATOL	5.000	1	5.000		Q1
			AM J KIDNEY DIS	6.269	2	12.538	D1	Q1
			AM J PATHOL	4.206	2	8.412		Q1
			AM J TRANSPLANT	5.669	6	34.014	D1	Q1
			AN PEDIATR	0.773	1	0.773		Q4
			ANESTH ANALG	3.827	1	3.827		Q1
			ANGEW CHEM INT EDIT	11.709	1	11.709	D1	Q1
			ANN HEMATOL	3.022	2	6.044		Q2
			ANN ONCOL	9.269	5	46.345	D1	Q1
			ANN RHEUM DIS	12.384	4	49.536	D1	Q1
			ANN THORAC SURG	3.021	1	3.021		Q1
			ANTIMICROB AGENTS CH	4.415	2	8.830		Q1
			ANTIVIR THER	2.916	2	5.832		Q2
			ARCH ARGENT PEDIATR	0.530	1	0.530		Q4
			ARCH BRONCONEUMOL	1.771	7	12.397		Q3
			ARCH CLIN NEUROPSYCH	2.014	2	4.028		Q2
			ARTHRITIS RES THER	3.979	3	11.937		Q1
			ARTHRITIS RHEUMATOL	6.009	1	6.009		Q1



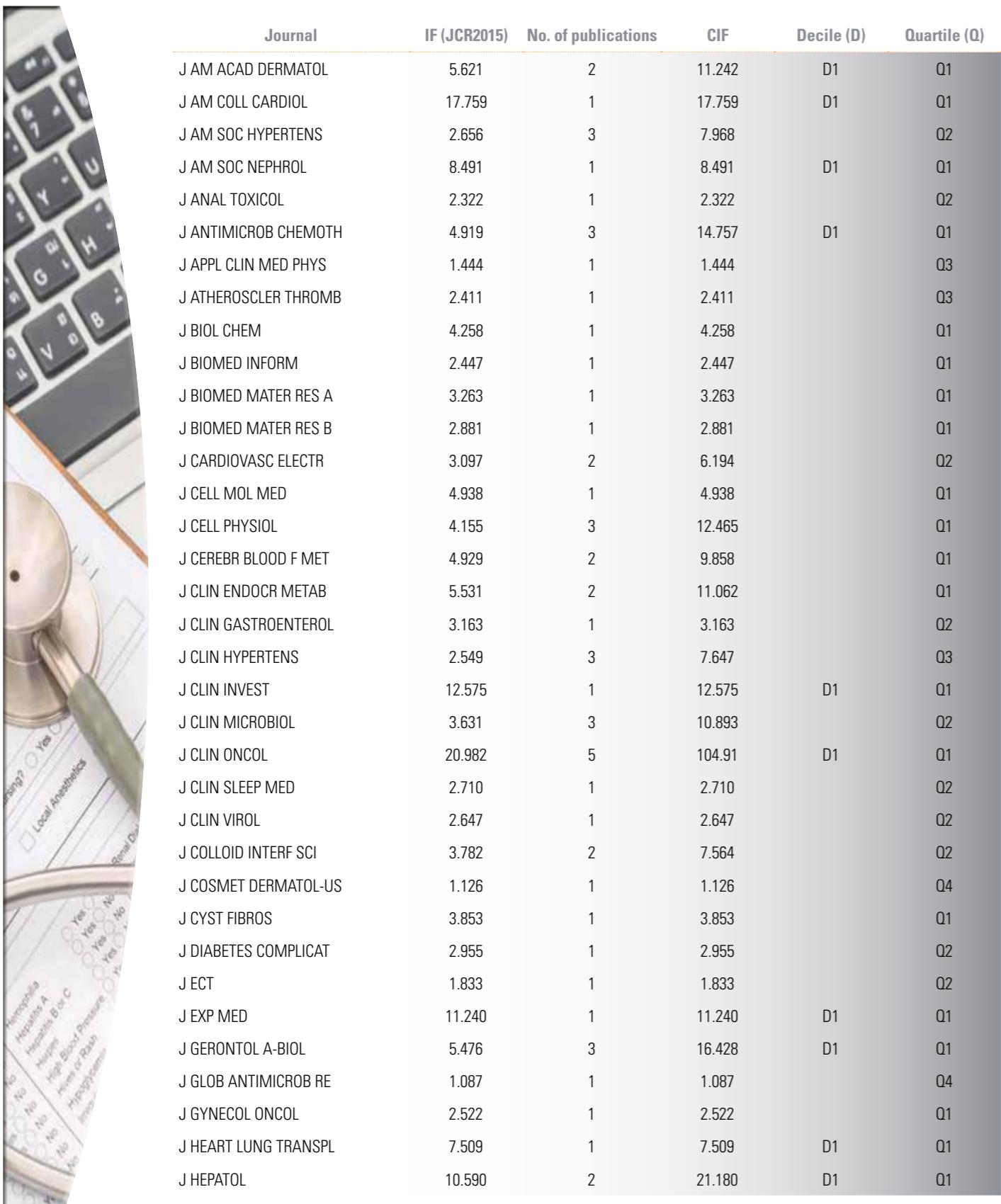
Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
ASAIO J	2.291	1	2.291		Q2
ATEN PRIM	1.098	2	2.196		Q3
AUTOPHAGY	9.108	2	18.216	D1	Q1
BBA-BIOENERGETICS	4.864	1	4.864		Q1
BBA-MOL BASIS DIS	5.158	1	5.158		Q1
BBA-MOL CELL RES	5.128	1	5.128		Q1
BIOCHEM PHARMACOL	5.091	1	5.091	D1	Q1
BIOCHEMISTRY-US	2.876	1	2.876		Q2
BIOINFORMATICS	5.766	1	5.766	D1	Q1
BIOMATER SCI-UK	3.614	1	3.614		Q2
BIOPHYS J	3.632	2	7.264		Q1
BLOOD	11.847	7	82.929	D1	Q1
BLOOD CELL MOL DIS	2.731	1	2.731		Q2
BMC CANCER	3.265	2	6.530		Q2
BMC GENOMICS	3.867	1	3.867		Q1
BMC INFECT DIS	2.690	1	2.690		Q2
BMC MED	8.005	1	8.005	D1	Q1
BMC PSYCHIATRY	2.576	1	2.576		Q2
BMC PULM MED	2.329	2	4.658		Q3
BONE MARROW TRANSPL	3.636	2	7.272		Q2
BRAIN DEV-JPN	1.785	1	1.785		Q3
BRIT J CANCER	5.569	1	5.569		Q1
BRIT J DERMATOL	4.317	2	8.634	D1	Q1
BRIT J HAEMATOL	5.812	4	23.248		Q1
BRIT J PSYCHIAT	7.060	1	7.060	D1	Q1
CAN MED ASSOC J	6.724	1	6.724	D1	Q1
CANCER MED-US	2.915	1	2.915		Q2
CANCER-AM CANCER SOC	5.649	1	5.649		Q1
CARDIOL YOUNG	0.825	1	0.825		Q4
CARDIOVASC DIABETOL	4.534	1	4.534		Q1
CARDIOVASC TOXICOL	2.063	1	2.063		Q3
CELL REP	7.870	2	15.740		Q1
CEREBELLUM	2.429	1	2.429		Q3
CHEST	6.136	1	6.136	D1	Q1

Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
CHILD ABUSE NEGLECT	2.397	1	2.397		Q1
CHILD NERV SYST	1.080	1	1.080		Q3
CIR ESPAN	1.000	3	3.000		Q3
CIRC J	4.124	1	4.124		Q1
CIRC-CARDIOVASC QUAL	4.282	1	4.282		Q1
CIRCULATION	17.202	1	17.202	D1	Q1
CLEV CLIN J MED	1.792	1	1.792		Q2
CLIN CARDIOL	2.431	1	2.431		Q2
CLIN CHEM LAB MED	3.017	1	3.017		Q1
CLIN EXP HYPERTENS	1.307	1	1.307		Q4
CLIN EXP RHEUMATOL	2.495	2	4.990		Q2
CLIN IMMUNOL	4.034	1	4.034		Q2
CLIN INFECT DIS	8.736	2	17.472	D1	Q1
CLIN J SPORT MED	2.308	1	2.308		Q1
CLIN LUNG CANCER	3.030	1	3.030		Q2
CLIN MICROBIOL INFEC	4.575	2	9.150		Q1
CLIN NEUROPHARMACOL	1.748	2	3.496		Q3
CLIN NUTR	4.487	1	4.487		Q1
CLIN OBSTET GYNECOL	1.619	1	1.619		Q3
CLIN RES CARDIOL	4.324	1	4.324		Q1
CLIN RHEUMATOL	2.042	1	2.042		Q3
CLIN SCI	5.016	1	5.016		Q1
CLIN THER	2.925	1	2.925		Q2
CLIN TRANSL ONCOL	2.075	7	14.525		Q3
CLIN TRANSPLANT	1.844	1	1.844		Q2
COLORECTAL DIS	2.452	1	2.452		Q2
COPD	2.160	1	2.160		Q3
CRIT CARE	4.950	1	4.950		Q1
CRIT REV ONCOL HEMAT	5.039	1	5.039		Q1
CURR CANCER DRUG TAR	3.707	1	3.707		Q2
CURR ONCOL REP	2.653	1	2.653		Q3
CURR PHARM DESIGN	3.052	5	15.26		Q2
CURR STEM CELL RES T	2.645	1	2.645		Q3
DERMATOL CLIN	1.875	1	1.875		Q2
DEV MED CHILD NEUROL	3.615	2	7.230		Q1



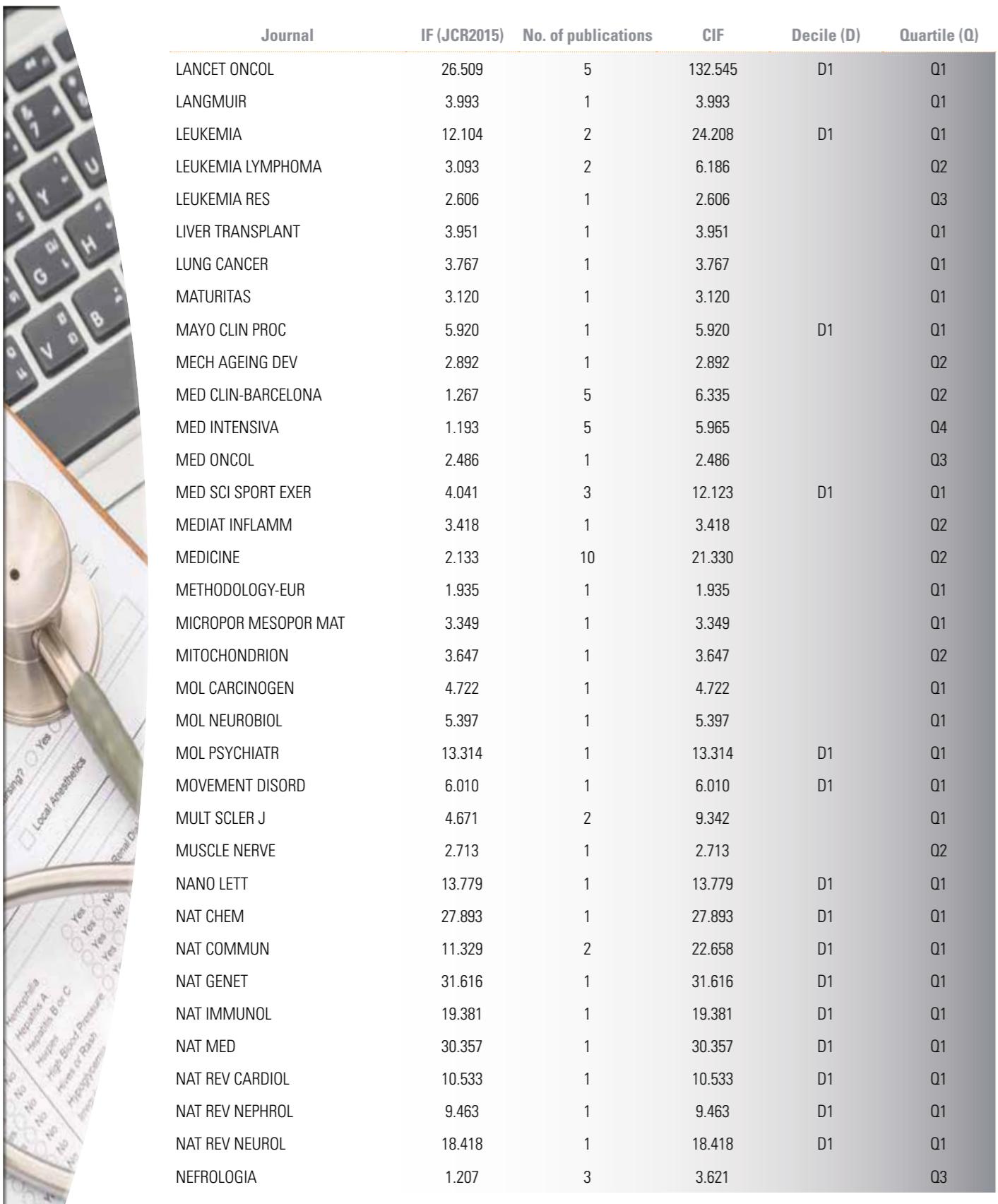
Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
DIABETES CARE	8.934	2	17.868	D1	Q1
DIABETOL METAB SYNDR	2.119	1	2.119		Q3
DIAGN PATHOL	1.895	1	1.895		Q2
DIGESTION	1.884	1	1.884		Q3
DIS MARKERS	2.137	2	4.274		Q2
EARLY HUM DEV	1.913	1	1.913		Q2
EMBO MOL MED	9.547	1	9.547	D1	Q1
EMERG INFECT DIS	6.994	1	6.994	D1	Q1
ENDOCR PATHOL	1.817	1	1.817		Q3
ENDOCRINE	3.279	1	3.279		Q2
ENDOCRINOL NUTR	1.314	1	1.314		Q4
ENDOSCOPY	5.634	2	11.268		Q1
ENFERM INFEC MICR CL	1.530	6	9.180		Q3
EUR ARCH PSY CLIN N	4.113	1	4.113		Q1
EUR HEART J	15.064	4	60.256	D1	Q1
EUR J CLIN INVEST	2.687	1	2.687		Q1
EUR J CLIN MICROBIOL	2.857	1	2.857		Q2
EUR J HAEMATOL	2.544	2	5.088		Q3
EUR J HEART FAIL	5.135	7	35.945		Q1
EUR J PREV CARDIOL	3.361	1	3.361		Q2
EUR PSYCHIAT	3.912	1	3.912		Q1
EUR RESPIR J	8.332	1	8.332	D1	Q1
EUROPACE	4.021	3	12.063		Q2
EXP GERONTOL	3.350	1	3.350		Q1
EXPERT OPIN DRUG SAF	2.896	1	2.896		Q2
EXPERT OPIN INV DRUG	4.408	1	4.408		Q1
EXPERT REV ANTICANC	2.094	1	2.094		Q3
FETAL DIAGN THER	2.700	1	2.700		Q1
FOOD CHEM	4.052	2	8.104	D1	Q1
FREE RADICAL BIO MED	5.784	1	5.784		Q1
FRONT AGING NEUROSCI	4.348	2	8.696		Q1
FRONT IMMUNOL	5.695	3	17.085		Q1
FRONT MICROBIOL	4.165	1	4.165		Q1
FRONT PSYCHOL	2.463	1	2.463		Q1
GAC SANIT	1.509	1	1.509		Q2

Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
GASTROINTEST ENDOSC	6.217	1	6.217		Q1
GENE CHROMOSOME CANC	3.960	1	3.960		Q1
GENE DEV	10.042	1	10.042	D1	Q1
GENET MED	7.710	1	7.710	D1	Q1
HAEMATOLOGICA	6.671	2	13.342	D1	Q1
HEART	5.693	1	5.693		Q1
HEPATOLOGY	11.711	2	23.422	D1	Q1
HORM METAB RES	2.029	1	2.029		Q3
HUM MOL GENET	5.985	1	5.985	D1	Q1
HUM PATHOL	2.791	1	2.791		Q2
HYPERTENSION	6.350	1	6.350	D1	Q1
IMMUNOBIOLOGY	2.781	2	5.562		Q3
IMMUNOL RES	2.934	1	2.934		Q2
INFECT IMMUN	3.603	1	3.603		Q1
INFORM PROCESS MANAG	1.397	1	1.397		Q2
INJURY	1.910	1	1.910		Q2
INT IMMUNOL	3.031	1	3.031		Q2
INT J ANTIMICROB AG	4.097	1	4.097		Q1
INT J APPL GLASS SCI	1.843	1	1.843		Q1
INT J ARTIF ORGANS	1.005	1	1.005		Q3
INT J CARDIOL	4.638	7	32.466		Q1
INT J COLORECTAL DIS	2.383	1	2.383		Q2
INT J DERMATOL	1.415	1	1.415		Q3
INT J LAB HEMATOL	2.401	1	2.401		Q3
INT J NEUROPSYCHOPH	4.333	1	4.333		Q1
INT J NURS KNOWL	0.727	1	0.727		Q3
INT J PUBLIC HEALTH	2.754	1	2.754		Q1
INT J SPORT PHYSIOL	3.042	1	3.042		Q1
INT J TUBERC LUNG D	2.148	1	2.148		Q3
INT J UROL	1.878	1	1.878		Q2
INTERNAL MED	0.832	1	0.832		Q3
INVEST OPHTH VIS SCI	3.427	1	3.427	D1	Q1
J AEROSOL MED PULM D	3.041	1	3.041		Q2
J ALLERGY CLIN IMMUN	12.485	1	12.485	D1	Q1
J ALZHEIMERS DIS	3.920	3	11.760		Q2



Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
J AM ACAD DERMATOL	5.621	2	11.242	D1	Q1
J AM COLL CARDIOL	17.759	1	17.759	D1	Q1
J AM SOC HYPERTENS	2.656	3	7.968		Q2
J AM SOC NEPHROL	8.491	1	8.491	D1	Q1
J ANAL TOXICOL	2.322	1	2.322		Q2
J ANTIMICROB CHEMOTH	4.919	3	14.757	D1	Q1
J APPL CLIN MED PHYS	1.444	1	1.444		Q3
J ATHEROSCLER THROMB	2.411	1	2.411		Q3
J BIOL CHEM	4.258	1	4.258		Q1
J BIOMED INFORM	2.447	1	2.447		Q1
J BIOMED MATER RES A	3.263	1	3.263		Q1
J BIOMED MATER RES B	2.881	1	2.881		Q1
J CARDIOVASC ELECTR	3.097	2	6.194		Q2
J CELL MOL MED	4.938	1	4.938		Q1
J CELL PHYSIOL	4.155	3	12.465		Q1
J CEREBR BLOOD F MET	4.929	2	9.858		Q1
J CLIN ENDOCR METAB	5.531	2	11.062		Q1
J CLIN GASTROENTEROL	3.163	1	3.163		Q2
J CLIN HYPERTENS	2.549	3	7.647		Q3
J CLIN INVEST	12.575	1	12.575	D1	Q1
J CLIN MICROBIOL	3.631	3	10.893		Q2
J CLIN ONCOL	20.982	5	104.91	D1	Q1
J CLIN SLEEP MED	2.710	1	2.710		Q2
J CLIN VIROL	2.647	1	2.647		Q2
J COLLOID INTERF SCI	3.782	2	7.564		Q2
J COSMET DERMATOL-US	1.126	1	1.126		Q4
J CYST FIBROS	3.853	1	3.853		Q1
J DIABETES COMPLICAT	2.955	1	2.955		Q2
J ECT	1.833	1	1.833		Q2
J EXP MED	11.240	1	11.240	D1	Q1
J GERONTOL A-BIOL	5.476	3	16.428	D1	Q1
J GLOB ANTIMICROB RE	1.087	1	1.087		Q4
J GYNECOL ONCOL	2.522	1	2.522		Q1
J HEART LUNG TRANSPL	7.509	1	7.509	D1	Q1
J HEPATOL	10.590	2	21.180	D1	Q1

Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
J HUM HYPERTENS	2.833	2	5.666		Q2
J HUM LACT	2.233	3	6.699		Q1
J HYPERTENS	5.062	3	15.186		Q1
J INFECTION	4.382	4	17.528		Q1
J INVEST ALLERG CLIN	2.131	1	2.131		Q3
J LEUKOCYTE BIOL	4.165	1	4.165		Q1
J MATER CHEM B	4.872	2	9.744		Q1
J MED CHEM	5.589	1	5.589	D1	Q1
J MOL DIAGN	5.201	1	5.201	D1	Q1
J NATL COMPR CANC NE	4.262	2	8.524		Q1
J NEPHROL	1.352	1	1.352		Q3
J NERV MENT DIS	1.836	1	1.836		Q2
J NEUROL SCI	2.126	1	2.126		Q3
J NEUROTRAUM	4.377	3	13.131		Q1
J NON-CRYST SOLIDS	1.825	1	1.825		Q1
J PEDIATR GASTR NUTR	2.400	2	4.800		Q1
J PERINAT MED	1.798	1	1.798		Q2
J PHYS CHEM C	4.509	1	4.509		Q1
J PHYSIOL-LONDON	4.731	1	4.731	D1	Q1
J PROTEOMICS	3.867	1	3.867		Q1
J PSYCHIATR NEUROSCI	5.570	1	5.570	D1	Q1
J PSYCHIATR RES	4.465	1	4.465		Q1
J RHEUMATOL	3.236	1	3.236		Q2
J SOL-GEL SCI TECHN	1.473	1	1.473		Q1
J THORAC CARDIOV SUR	3.494	2	6.988	D1	Q1
J THORAC DIS	1.649	1	1.649		Q3
J THORAC ONCOL	5.040	9	45.360		Q1
J TRACE ELEM MED BIO	2.550	1	2.550		Q3
J VISION	2.341	1	2.341		Q2
JALA-J LAB AUTOM	1.297	1	1.297		Q3
JAMA-J AM MED ASSOC	37.684	1	37.684	D1	Q1
JPEN-PARENTER ENTER	3.517	1	3.517		Q1
KIDNEY INT	7.683	1	7.683	D1	Q1
KINESIOLOGY	0.553	1	0.553		Q4
LANCET	44.002	1	44.002	D1	Q1



Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
LANCET ONCOL	26.509	5	132.545	D1	Q1
LANGMUIR	3.993	1	3.993		Q1
LEUKEMIA	12.104	2	24.208	D1	Q1
LEUKEMIA LYMPHOMA	3.093	2	6.186		Q2
LEUKEMIA RES	2.606	1	2.606		Q3
LIVER TRANSPLANT	3.951	1	3.951		Q1
LUNG CANCER	3.767	1	3.767		Q1
MATURITAS	3.120	1	3.120		Q1
MAYO CLIN PROC	5.920	1	5.920	D1	Q1
MECH AGEING DEV	2.892	1	2.892		Q2
MED CLIN-BARCELONA	1.267	5	6.335		Q2
MED INTENSIVA	1.193	5	5.965		Q4
MED ONCOL	2.486	1	2.486		Q3
MED SCI SPORT EXER	4.041	3	12.123	D1	Q1
MEDIAT INFLAMM	3.418	1	3.418		Q2
MEDICINE	2.133	10	21.330		Q2
METHODOLOGY-EUR	1.935	1	1.935		Q1
MICROPOR MESOPOR MAT	3.349	1	3.349		Q1
MITOCHONDRION	3.647	1	3.647		Q2
MOL CARCINOGEN	4.722	1	4.722		Q1
MOL NEUROBIOL	5.397	1	5.397		Q1
MOL PSYCHIATR	13.314	1	13.314	D1	Q1
MOVEMENT DISORD	6.010	1	6.010	D1	Q1
MULT SCLER J	4.671	2	9.342		Q1
MUSCLE NERVE	2.713	1	2.713		Q2
NANO LETT	13.779	1	13.779	D1	Q1
NAT CHEM	27.893	1	27.893	D1	Q1
NAT COMMUN	11.329	2	22.658	D1	Q1
NAT GENET	31.616	1	31.616	D1	Q1
NAT IMMUNOL	19.381	1	19.381	D1	Q1
NAT MED	30.357	1	30.357	D1	Q1
NAT REV CARDIOL	10.533	1	10.533	D1	Q1
NAT REV NEPHROL	9.463	1	9.463	D1	Q1
NAT REV NEUROL	18.418	1	18.418	D1	Q1
NEFROLOGIA	1.207	3	3.621		Q3

Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
NEPHROL DIAL TRANSPL	4.085	1	4.085		Q1
NEPHRON	0.000	1	0.000		Q4
NEUROBIOL DIS	4.856	1	4.856		Q1
NEUROCIRUGIA	0.410	3	1.230		Q4
NEUROENDOCRINOL LETT	0.946	1	0.946		Q4
NEUROENDOCRINOLOGY	2.583	6	15.498		Q3
NEUROEPIDEMIOLOGY	2.784	2	5.568		Q1
NEUROGENETICS	3.426	2	6.852		Q1
NEUROLOGIA	1.790	3	5.370		Q3
NEUROLOGY	8.166	3	24.498	D1	Q1
NEUROMOL MED	3.692	1	3.692		Q2
NEUROMUSCULAR DISORD	3.107	1	3.107		Q2
NEURO-ONCOLOGY	7.371	1	7.371	D1	Q1
NEUROPHARMACOLOGY	4.936	2	9.872	D1	Q1
NEURORADIOLOGY	2.274	1	2.274		Q2
NEUROSCI BIOBEHAV R	8.580	1	8.580	D1	Q1
NEUROTHERAPEUTICS	4.676	1	4.676		Q1
NEUROTOX RES	3.140	1	3.140		Q2
NEW ENGL J MED	59.558	3	178.674	D1	Q1
NURS INQ	1.141	1	1.141		Q2
NUTR HOSP	1.497	4	5.988		Q3
NUTRIENTS	3.759	1	3.759		Q1
OBES RES CLIN PRACT	2.094	1	2.094		Q3
ONCOGENE	7.932	1	7.932	D1	Q1
ONCOIMMUNOLOGY	7.644	1	7.644	D1	Q1
ONCOTARGET	5.008	12	60.096		Q1
ORPHANET J RARE DIS	3.290	1	3.290		Q2
P NATL ACAD SCI USA	9.423	1	9.423	D1	Q1
PACE	1.440	2	2.880		Q3
PAED CHILD HEALT-CAN	1.509	1	1.509		Q3
PEDIAT ALLERG IMM-UK	3.947	1	3.947	D1	Q1
PEDIATR CRIT CARE ME	2.659	1	2.659		Q1
PEDIATR EMERG CARE	0.923	1	0.923		Q3
PEDIATR INFECT DIS J	2.587	2	5.174		Q1
PEDIATR NEONATOL	1.319	1	1.319		Q3



Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
PEDIATR NEPHROL	2.338	1	2.338		Q1
PEDIATR PULM	2.850	1	2.850		Q1
PEDIATR TRANSPLANT	1.284	1	1.284		Q3
PEDIATRICS	5.196	1	5.196	D1	Q1
PEERJ	2.183	1	2.183		Q1
PHARMACOGENOMICS J	3.784	2	7.568		Q1
PHYSIOL GENOMICS	2.615	2	5.230		Q2
PLATELETS	3.213	1	3.213		Q2
PLOS NEGLECT TROP D	3.948	1	3.948	D1	Q1
PLOS ONE	3.057	12	36.684		Q1
PREGNANCY HYPERTENS	1.308	1	1.308		Q4
PROG NEURO-PSYCHOPH	4.361	1	4.361		Q1
PROG UROL	0.562	1	0.562		Q4
PSICOLOGICA	0.281	1	0.281		Q4
PSICOTHEMA	1.245	1	1.245		Q2
PSYCHOL MED	5.491	1	5.491	D1	Q1
REV CLIN ESP	0.760	4	3.040		Q3
REV ESP CARDIOL	4.596	4	18.384		Q1
REV ESP ENFERM DIG	1.455	1	1.455		Q4
REV ESP SALUD PUBLIC	0.606	2	1.212		Q4
REV IBEROAM MICOL	1.444	1	1.444		Q3
REV NEUROLOGIA	0.684	1	0.684		Q4
REV PSIQUEIATR SALUD	1.650	1	1.650		Q3
RHEUMATOLOGY	4.524	2	9.048		Q1
RNA BIOL	4.076	1	4.076		Q2
ROM J MORPHOL EMBRYO	0.811	1	0.811		Q4
RSC ADV	3.289	4	13.156		Q2
SCHIZOPHR RES	4.453	1	4.453		Q1
SCHIZOPHRENIA BULL	7.757	2	15.514	D1	Q1
SCI REP-UK	5.228	6	31.368		Q1
SEMIN ARTHRITIS RHEU	3.946	1	3.946		Q2
SLEEP MED	3.339	1	3.339		Q2
SMALL	8.315	1	8.315		Q1
SPAN J PSYCHOL	0.493	1	0.493		Q4
SPINAL CORD	1.546	1	1.546		Q2

Journal	IF (JCR2015)	No. of publications	CIF	Decile (D)	Quartile (Q)
SPORTS MED	5.579	1	5.579	D1	Q1
STATA J	1.292	1	1.292		Q2
STEM CELL RES	3.892	6	23.352		Q1
STEM CELL RES THER	4.504	1	4.504		Q1
STROKE	5.787	2	11.574	D1	Q1
SUPPORT CARE CANCER	2.535	2	5.070		Q1
SURG RADIOL ANAT	1.195	1	1.195		Q3
TARGET ONCOL	3.197	2	6.394		Q2
THERANOSTICS	8.854	1	8.854	D1	Q1
TRANSL RES	4.557	1	4.557	D1	Q1
TRANSPL IMMUNOL	1.317	2	2.634		Q3
TRANSPL INFECT DIS	1.459	3	4.377		Q3
TRANSPL INT	2.835	2	5.670		Q1
TRANSPL P	0.867	3	2.601		Q4
TRANSPLANT REV-ORLAN	3.915	1	3.915		Q1
TRANSPLANTATION	3.690	3	11.070	D1	Q1
TRENDS CARDIOVAS MED	3.075	1	3.075		Q2
TRENDS MOL MED	9.292	1	9.292	D1	Q1
TRENDS PHARMACOL SCI	11.840	1	11.840	D1	Q1
ULTRASOUND OBST GYN	4.254	2	8.508	D1	Q1
UROLOGY	2.187	1	2.187		Q2
VECTOR-BORNE ZOONOT	1.956	1	1.956		Q2
VIRULENCE	5.418	1	5.418	D1	Q1
VIRUS RES	2.526	1	2.526		Q3
WORLD J GASTROENTERO	2.787	3	8.361		Q2
WORLD NEUROSURG	2.685	1	2.685		Q1

Number of journals = 374    4.955 (MIF)    631    3.126,444

## CLINICAL PRACTICE GUIDELINES

During 2016, the results of research studies carried out in Instituto i+12 led to the publication of **8 clinical practice guidelines:**

- Besses C, Hernandez-Boluda JC, Perez Encinas M, Raya JM, Hernandez-Rivas JM, Jimenez Velasco A, **Martinez Lopez J**, Vicente V, Burgaleta C; GEMFIN. **Current opinion and consensus statement regarding the diagnosis, prognosis, and treatment of patients with essential thrombocythemia: a survey of the Spanish Group of Ph-negative Myeloproliferative Neoplasms (GEMFIN) using the Delphi method.** Annals of Hematology. 2016;95:719-32. IF: 3.022.
- Pape UF, Niederle B, Costa F, Gross D, Kelestimur F, Kianmanesh R, Knigge U, Öberg K, Pavel M, Perren A, Toumpanakis C, O'Connor J, Krenning E, Reed N, O'Toole D; Vienna Consensus Conference participants. **ENETS Consensus Guidelines for Neuroendocrine Neoplasms of the Appendix (Excluding Goblet Cell Carcinomas).** Neuroendocrinology. 2016;103:144-52. IF: 2.583.
- Ramage JK, De Herder WW, Delle Fave G, Ferolla P, Ferone D, Ito T, Ruszniewski P, Sundin A, Weber W, Zheng-Pei Z, Taal B, Pascher A; Vienna Consensus Conference participants. **ENETS Consensus Guidelines Update for Colorectal Neuroendocrine Neoplasms.** Neuroendocrinology. 2016;103:139-43. IF: 2.583.
- Niederle B, Pape UF, Costa F, Gross D, Kelestimur F, Knigge U, Öberg K, Pavel M, Perren A, Toumpanakis C, O'Connor J, O'Toole D, Krenning E, Reed N, Kianmanesh R; Vienna Consensus Conference participants. **ENETS Consensus Guidelines Update for Neuroendocrine Neoplasms of the Jejunum and Ileum.** Neuroendocrinology. 2016;103:125-38. IF: 2.583.
- Pavel M, O'Toole D, Costa F, Capdevila J, Gross D, Kianmanesh R, Krenning E, Knigge U, Salazar R, Pape UF, Öberg K; Vienna Consensus Conference participants. **ENETS Consensus Guidelines Update for the Management of Distant Metastatic Disease of Intestinal, Pancreatic, Bronchial Neuroendocrine Neoplasms (NEN) and NEN of Unknown Primary Site.** Neuroendocrinology. 2016;103:172-85. IF: 2.583.
- Falconi M, Eriksson B, Kaltsas G, Bartsch DK, Capdevila J, Caplin M, Kos-Kudla B, Kwekkeboom D, Rindi G, Klöppel G, Reed N, Kianmanesh R, Jensen RT; Vienna Consensus Conference participants. **ENETS Consensus Guidelines Update for the Management of Patients with Functional Pancreatic Neuroendocrine Tumors and Non-Functional Pancreatic Neuroendocrine Tumors.** Neuroendocrinology. 2016;103:153-171. IF: 2.583.
- Klionsky DJ, Abdelmohsen K, Abe A, Abedin MJ, Abieliovich H, Acevedo Arozena A, Adachi H, Adams CM, Adams PD, Adeli K, Adhiketty PJ, Adler SG, Agam G, Agarwal R, Aghi MK, Agnello M, Agostinis P, Aguilar PV, Aguirre-Ghiso J, Airoldi EM, et al. **Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition).** Autophagy. 2016;12:1-222. IF: 9.108.
- Virizuela JA, Carratalà J, **Aguado JM**, Vicente D, Salavert M, Ruiz M, Ruiz I, Marco F, **Lizasoain M**, Jiménez-Fonseca P, Gudiol C, Cassinello J, Carmona-Bayonas A, Aguilar M, Cruz JJ. **Management of infection and febrile neutropenia in patients with solid cancer.** Clinical & Translational Oncology. 2016;18: 557-570. IF: 2.075.



## TECHNOLOGY TRANSFER ACTIVITIES AND IPR PORTFOLIO

In 2016, several inventions from our staff have been registered as follows: 1 Spanish patent applications, 5 international applications (under the PCT), a trademark, and a database.

The Intellectual Property Rights Portfolio in which researchers at i+12 have been involved is listed below. In particular, those belonging to the Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120) in terms of right holder or joint-owner.

- **Title:** Un método pronóstico y kit para la identificación de riesgo de desarrollo de albúminuria, riesgo de daño renal y riesgo cardiovascular en un sujeto humano hipertenso.  
**Number:** P201630559.  
**Type:** Patente Española.  
**Inventors:** Luis Miguel Ruilope Urioste, Gloria Álvarez Llamas, Fernando Martín Vivanco, Laura González Calero, Mª Eugenia González Barderas.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación Jiménez Díaz (60%), Fundación de Investigación del Hospital Nacional de Parapléjicos de Toledo (20%).  
**Date of application:** 29/04/2016.
- **Title:** Aplicador de catéteres y catéter que incorpora aplicador.  
**Number:** PCT/ES2016/070403.  
**Type:** Patente PCT.  
**Inventor:** Francisco López Medrano.  
**Owner:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).  
**Date of application:** 27/05/2016.
- **Title:** Pasteurizador en continuo para leche humana.  
**Number:** PCT/ES2016/070594.  
**Type:** Patente PCT.  
**Inventors:** Diana Escuder Vieco, Carmen Rosa Pallás Alonso, Pablo Siegfried Sely, Leónides Fernández Álvarez.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (33,33%), Sive Fluid Systems, S.L. (33,33%), Probisearch, S.L. (33,33%).  
**Date of application:** 05/08/2016.
- **Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.  
**Number:** PCT/ES2016/070929.  
**Type:** Patente PCT.  
**Inventors:** José Perea García, Daniel Rueda Fernández, María Arriba Domenech, Miguel Urioste Azcorra, Juan Luis García Hernández, Jessica Pérez García, Rogelio González Sarmiento.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%), Universidad de Salamanca (25%).  
**Date of application:** 22/12/2016.

## FINANCIAL

## REPORT



• **Title:** SePIR+12

**Number:** M3614731.

**Type:** Marca comercial española.

**Inventor:** N/A.

**Titular:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).

**Date of application:** 19/05/2016.

• **Title:** Sistema SePIR+12: seguimiento de un Plan Estratégico en cualquier organización.

**Number:** M006080/2016.

**Type:** Base de Datos.

**Inventor:** Román Barredo Torices.

**Titular:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).

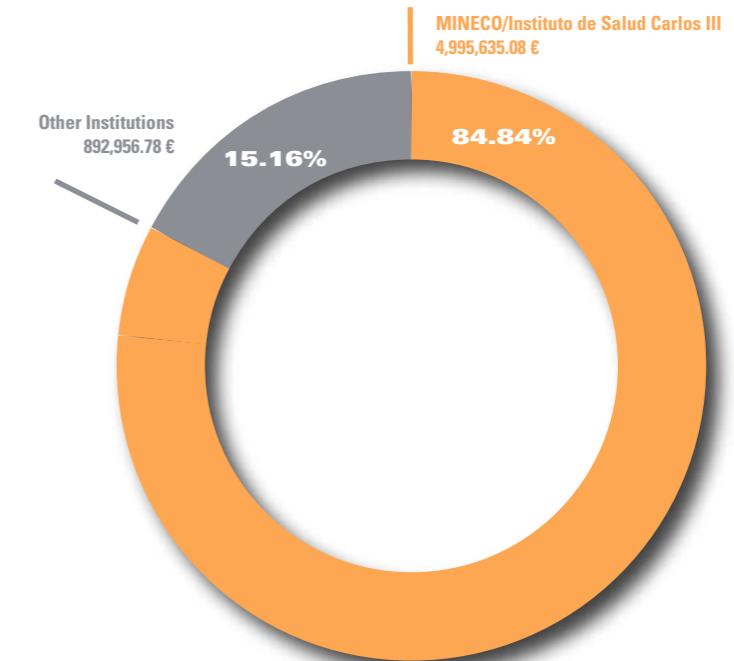
**Date of application:** 20/05/2016.



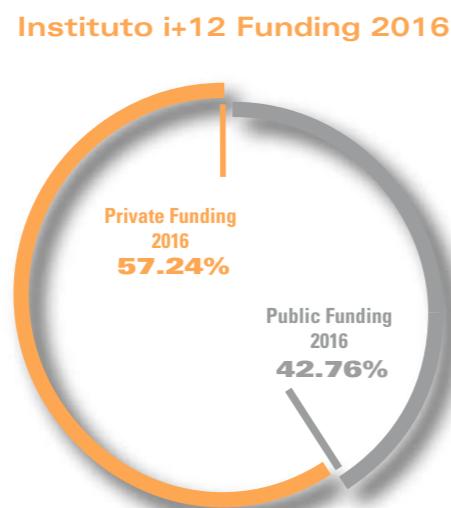
During the year 2016, Instituto de Investigación Hospital 12 de Octubre obtained €13,772,652.51 in funding.

The following table shows the financial resources corresponding to the year 2016 classified by funding source:

	Income 2016	% Income
Public Funding	5,888,591.86 €	42.76%
Private Funding	7,884,060.65 €	57.24%
<b>Total</b>	<b>13,772,652.51</b>	

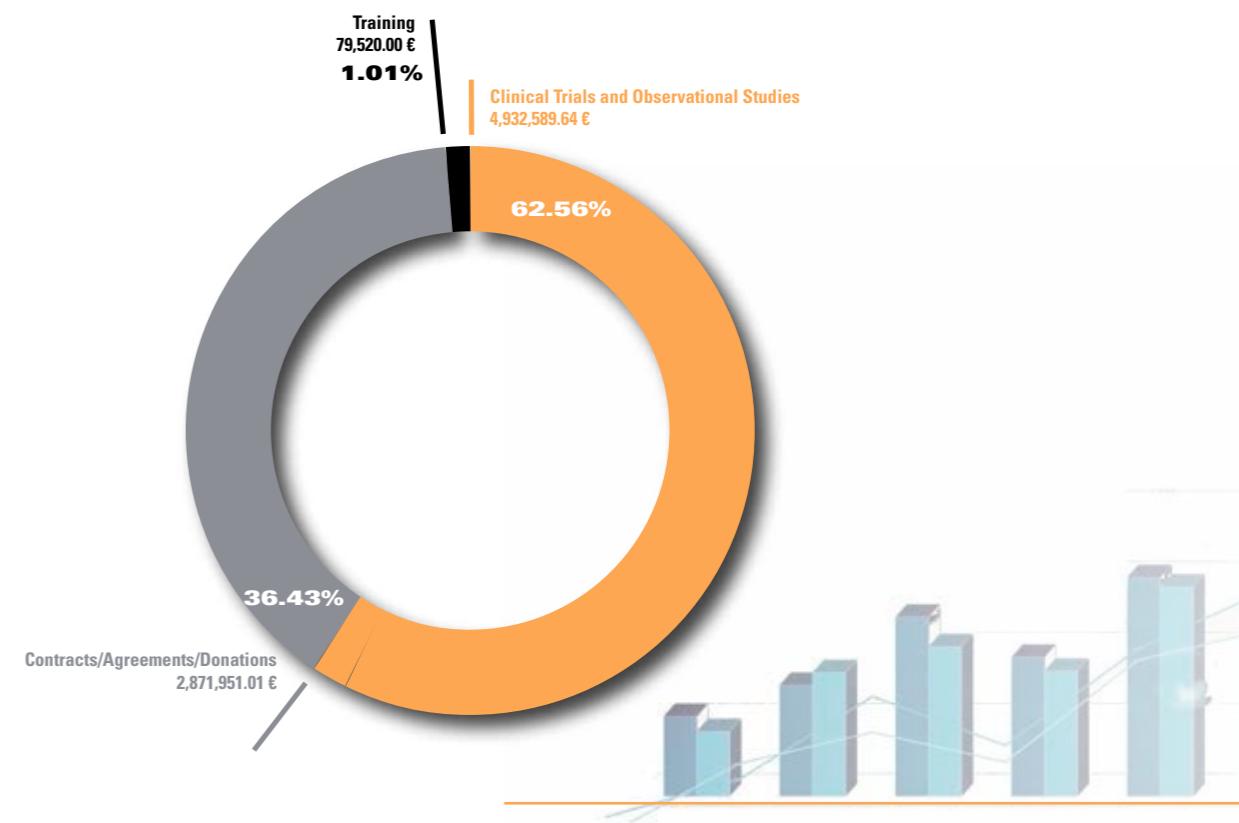


The following figure shows the distribution of financial resources according to the type of funding:



The following table shows private sector funding obtained by Instituto i+12 in 2016:

	Private Funding 2016	% Private Funding
Clinical Trials and Observational Studies	4,932,589.64 €	62.56%
Contracts/Agreements/Donations	2,871,951.01 €	36.43%
Training	79,520.00 €	1.01%
<b>Total</b>	<b>7,884,060.65 €</b>	<b>100.00%</b>

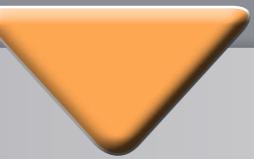


The following table shows the distribution of public sector funding obtained by Instituto i+12 with respect to the funding body:

	Public Funding 2016	% Public Funding
MINECO/Instituto de Salud Carlos III	4,995,635.08 €	84.84%
Other Institutions	892,956.78 €	15.16%
<b>Total</b>	<b>5,888,591.86 €</b>	

# TRAINING

# ACTIVITIES



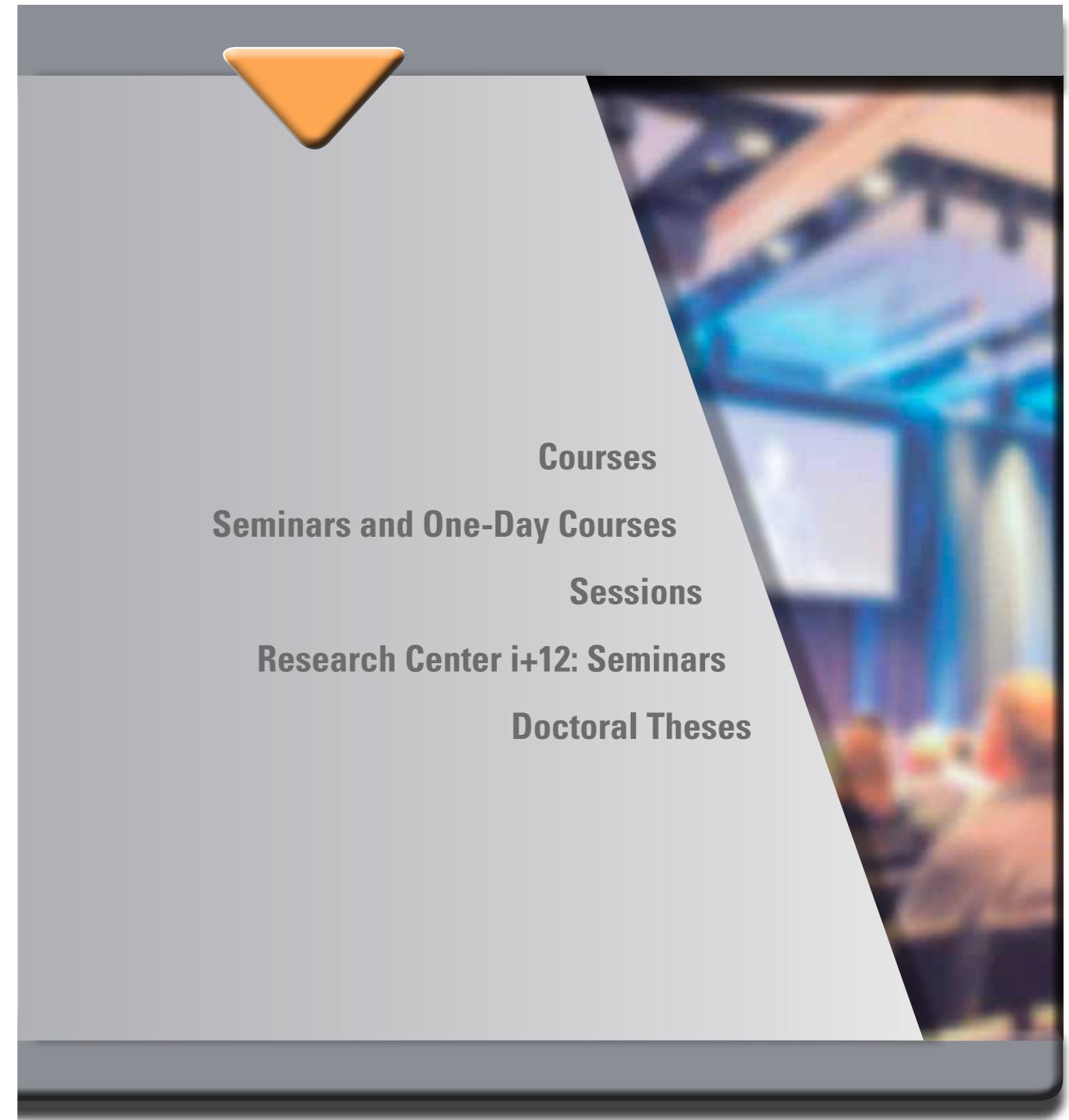
Courses

Seminars and One-Day Courses

Sessions

Research Center i+12: Seminars

Doctoral Theses



As part of the annual training plan, the Instituto de Investigación Hospital 12 de Octubre developed a series of training activities during 2016:

## COURSES

- *Methodological Bases of Biomedical Research* (25th edition). 19th January to 24th February 2016. 17 sessions. 60 class hours. Organized by: Agustín Gómez de la Cámara. Unidad de Investigación Clínica. Instituto de Investigación Hospital 12 de Octubre.
- *Introduction to R and RStudio*. Get to know R and R-Studio. Functioning, packages, help, and first examples. On-line course. Lecturer: José Carlos Martínez Ávila. April 12,13, 20, and 21 April 2016.
- *Introduction to Stata*. First contact with the statistical software STATA. Lecturer: David Lora Pablos. 19 April 2016.
- *Critical Reading of the Scientific Literature*. Identification of structure, elements, and sources of information. Lecturer: Agustín Gómez de la Cámara. 25 April 2016.
- *Reading and Interpretation of the Scientific Literature*. Plataforma virtual de la FFOMC. 30 class hours. Lecturer: Agustín Gómez de la Cámara.
- *Training course for users of CTMS: Clinical trial management systems of SCReN*. Lecturer: M<sup>a</sup> Teresa García Morales. 13 and 22 October 2016.
- *Bioinformatics in Health Sciences* (continuing training course). Lecturer: David Lora Pablos. 18, 19, and 20 October 2016.
- *Course on evidence-based clinical problem solving*. Mixed course (face-to-face and distance learning). Lecturer: Agustín Gómez de la Cámara. 5-10 November 2016.
- *Internal training course on standardized operating procedures (SOP) in data management processes. Clinical Trials and Research Support Platform*. Lecturer: M<sup>a</sup> Teresa García Morales. 23 November 2016.

## SEMINARS AND ONE-DAY COURSES

- *First course on postresidential professional and entrepreneurial orientation*. 18 February 2016, 15:30h - 19:30h. Hospital Universitario 12 de Octubre.
- *Third update course on organ transplantation*. The most innovative clinical practices in solid organ transplant and donation. 3 and 4 March 2016. Hospital Universitario 12 de Octubre.
- *Open day for future residents*. 29 March 2016, 8:30h to 17:30h. Hospital Universitario 12 de Octubre.
- *Third training course on surgical research*. Statistics applied to surgical research. David Lora. Clinical trials in surgery. Agustín Gómez de la Cámara. 20 and 21 April 2016.
- *VI Certamen Científico Ana María Martínez*. 18 May 2016, 9:00h to 14:00h. Hospital Universitario 12 de Octubre.
- *Roche Scientific Seminar. Molecular approaches in the resolution of nosocomial resistance*. 10 June 2016, 9:30h to 13:30h. Hospital Universitario 12 de Octubre.
- *SCReN Platform Course – Challenges and opportunities for clinical research Independent*. 9 June 2016, 9:00h to 17:30h. Hospital Universitario 12 de Octubre.
- *Innovation course "Initiatives that boost transfer of R&D&i results to the market from the health care setting"*. 18 October 2016, 11:00h to 13:30h. Hospital Universitario 12 de Octubre.



## SESSIONS

DATE	TITLE	SPEAKERS
12/02/2016	Design and implementation of an integrated program for care for patients with tuberous sclerosis	Félix Guerrero Ramos Montserrat Morales Conejo Rogelio Simón de las Heras
24/02/2016	Vision and evolution of research in the SNS from the Instituto de Salud Carlos III/FIS	Jesús Fernández Crespo Joaquín Arenas Barbero José A. Gutiérrez-Fuentes
05/04/2016	Presentation of Calls for Strategic Actions in Health 2016	Joaquín Arenas Barbero
20/05/2016	Presentation of the results of the reaccreditation audit i+12 and presentation of the new web page i+12	Joaquín Arenas Barbero María López Berlanga Román Barredo Torices
08/06/2016	Big Data: a reality in the health sector	Julia Díaz García
14/06/2016	Clinical cases in infectious diseases	Manuel Fernández Guerrero
01/07/2016	Alzheimer: prevention from childhood	Félix Bermejo Pareja
23/09/2016	Cardiovascular Imaging Units: from the symptom to the molecule	Jorge Solís Martín
29/11/2016	Research in i+12 on new connections between the cardiovascular system and the brain	Héctor Bueno Zamora

## RESEARCH CENTER I+12: SEMINARS

DATE	TITLE	SPEAKER
1/02/2016	Targeting T cells in Arthritis: nota all anti-CD3 antibodies are created equal	Gabriel Criado Carrasco
	Energy deficiency and mitochondrial uncoupling in VCP-deficient cells and human neurons is caused by altered ATP/ADP translocation	Fernando Bartolome Robledo
15/02/2016	Prognostic significance of REV3L and TYMS gene expression in blood samples from non-small cell lung patients treated with platinum-based chemotherapy plus pemetrexed	Vanessa Díaz
	Training as a therapeutic strategy in mitochondrial diseases	Maria Morán Bermejo
1/03/2016	External validation of prognostic models for predicting time-dependent events in cancer	David Lora Pablos
	McArdle disease: Beyond diagnosis	Adrián González Quintana
14/03/2016	EMD mice: neurogeneration model or the tip of the iceberg	Eva Mª Carro Díaz
	Study of the mechanism underlying the synergy between tumor necrosis factor (TNF-alfa) and interleukin-6 (IL-6) in synovial fibroblasts in patients with rheumatoid arthritis	Álvaro Valin García
4/04/2016	Biomarkers in translational research	Ana Arratzo
11/04/2016	Analysis of the management of intracellular calcium in the cardiomyocyte: excitation-contraction/transcription coupling	Gema Ruiz Hurtado
	Genotyping of RhD	Irene López Manjón
25/04/2016	Innate lymphoid cells in intestinal transplant	Paloma Talayero Giménez de Azcarate
9/05/2016	Recovery of apoptosis after specific silencing of mutated alleles in patients with ALPS	Mª Esther Mancebo Sierra
9/05/2016	Confocal microscopy: organization, basic working instructions, online reservation calendar (of particular interest for current and future users of the confocal microscope)	Fernando Bartolome Robledo
23/05/2016	Drug testing in an Alzheimer's disease mouse model	Joana Figueiro da Silva
	HIF and its role in the pathogenesis of rheumatoid arthritis	Manuel del Rey Cerros
20/06/2016	Analysis of the expression of taste and olfactory receptors in choroid plexus and orbitofrontal cortex of Alzheimer's disease patients	Victoria Da Cunha
	Role of VEGF-A, PIGF, NRP-1 and TGF-β1 in the response to anti-angiogenic treatment in patients with non-small cell lung cancer	Victoria Santisteban
4/07/2016	New strategies to control the speed of aging	Mónica de la Fuente del Rey
	Evolution and addiction	Guillermo Ponce Alfaro
18/07/2016	Music, genes, and cancer. The symphony of life.	José Carlos Martínez
	Immunodeficiencies of the T lymphocyte antigen receptor (TCR)	José Ramón Regueiro González-Barros

# DOCTORAL THESES DIRECTED OR DEFENDED IN 2016 BY RESEARCHERS FROM THE INSTITUTE

Candidate	Title	University	Research Area/Group	Director(s) of Thesis
Fulvio Santacatterina	Metabolismo energético en patología y su traslación a la clínica	Autónoma de Madrid	Cancer/Translational Energy Metabolism	J.M. Cuevaa Marcos
Álvaro García Sesma	Quimerismo leucocitario en el trasplante hepático. Hacia la utopía de la inmunotolerancia y la no inmunosupresión	Complutense de Madrid	Cancer/Translational Haematology	E. Moreno González R.M.ª. Ayala Díaz C. Loinza Segurola
Mª Teresa Cedena Romero	Impacto clínico de las aberrancias inmunofenotípicas y perfil mutacional en síndromes mielodisplásicos	Complutense de Madrid	Cancer/Translational Haematology	F. Gilsanz Rodríguez J. Martínez López R.M.ª. Ayala Díaz
Juan Manuel Alonso Domínguez	Estudio de factores moleculares predictores de respuesta a Imatinib en pacientes diagnosticados de leucemia mieloide crónica en fase crónica	Complutense de Madrid	Cancer/Translational Haematology	F. Gilsanz Rodríguez J. Martínez López
Julio Arévalo Pérez	Utilidad de la RM con contraste potenciada en T1 en la valoración de neoplasias del SNC y cambios inducidos en la medula ósea de la columna vertebral	Complutense de Madrid	Cancer/Neuro-Oncology	A. Ramos González
Mª del Carmen Riesco Martínez	Optimización de la secuencia de tratamiento en cáncer colorrectal avanzado: meta-análisis y análisis coste-efectividad de la secuencia de empleo de terapias antidiaria en cáncer colorrectal avanzado no resecable, RAS nativo	Complutense de Madrid	Cancer/Clinical-Translational Oncology	L.G. Paz-Ares Rodríguez R. García Carbonero
Purificación Estévez García	Perfiles de expresión génica predictivos de respuesta a quimioterapia en pacientes con carcinoma colorectal metastásico	Sevilla	Cancer/Clinical-Translational Oncology	R. García Carbonero
José Antonio López Martín	Cambios proteómicos y del metabolismo energético en un modelo in vitro de interacción epitelio-mesenquimal de cáncer de páncreas	Complutense de Madrid	Cancer/Clinical-Translational Oncology	L.G. Paz-Ares Rodríguez

Candidate	Title	University	Research Area/Group	Director(s) of Thesis
Guillermo de Velasco Oria de Rueda	Análisis de un perfil de microARN como factor pronóstico en cáncer de mama con afectación axilar	Complutense de Madrid	Cancer/Clinical-Translational Oncology	L.G. Paz-Ares Rodríguez
Oskarina Hernández Bolívar	Cambios con el envejecimiento en la función y estado redox de leucocitos peritoneales de ratones sometidos a un shock endotóxico. Efecto de intervenciones horméticas y nutricionales	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Aging, Neuroimmunology and Nutrition	M. de la Fuente del Rey
Nuria de Castro de Frutos	La obesidad como modelo murino de envejecimiento prematuro. Estudio conductual, de función inmunitaria y estado oxidativo	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Aging, Neuroimmunology and Nutrition	M. de la Fuente del Rey
Mercedes García Martín	Personalidad, bienestar y salud en jóvenes de 20 a 30 años	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Aging, Neuroimmunology and Nutrition	M. de la Fuente del Rey F. Colmenares Gil
Helena Pulido Olmo	Ánalisis traslacional de la presencia de albuminuria y su relación con la disfunción endotelial y el estrés oxidativo	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Arterial Hypertension and Cardiovascular Risk	G. Ruiz Hurtado I. Aránguez Alonso M. Fernández Alfonso
Marina Martínez Carmona	Nanomateriales de sílice mesoestructurada: aplicación en infección y cáncer	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Research on Intelligent Biomaterials	M. Colilla Nieto
Eduardo Guisasola Cal	Nanotransportadores basados en sílice mesoporosa para el tratamiento antitumoral	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Research on Intelligent Biomaterials	A. Baeza García D. Arcos Navarrete
David Escribano Abad	Valor del estudio de las anomalías cromosómicas en fetos con cardiopatía congénita: factores de riesgo e importancia pronóstica	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Perinatal Medicine	A. Galindo Izquierdo
Mª José Gómez Rodríguez	Evolución de los criterios de selección de gestantes en riesgo de cromosomopatía fetal. Papel de la edad materna	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Perinatal Medicine	A. Galindo Izquierdo

Candidate	Title	University	Research Area/Group	Director(s) of Thesis	Candidate	Title	University	Research Area/Group	Director(s) of Thesis
Esther González Monte	Estudio multicéntrico de nefritis intersticial aguda por fármacos: características clínicas e influencia del tratamiento esteroideo	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Clinical Nephrology	M. Praga Terente	Edurne Álvaro Cifuentes	Fallo primario del injerto y colangiopatía isquémica en el trasplante hepático con donantes después de muerte cardiocirculatoria tipo II de Maastricht	Complutense de Madrid	Epidemiology and Evaluation of Health Technologies and Services/ Maternal and Infant Health	M. Abradelo de Usera L.C. Jiménez Romero E. Moreno González
Nayara Panizo González	Análisis de la composición corporal por bioimpedancia electroscópica en pacientes trasplantados renales, factores relacionados con la sobrehidratación y el exceso de grasa e impacto clínico de los mismos	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Clinical Nephrology	M. Praga Terente	Félix Cambra Molero	Utilización de injertos hepáticos de donantes octogenarios en trasplante hepático. Análisis comparativo con injertos de donantes menores de 65 años	Complutense de Madrid	Transplant, Tissue Engineering and Regenerative Medicine/Abdominal Organ Transplant	L.C. Jiménez Romero E. Moreno González J. Calvo Pulido
Claudia Yuste Lozano	Daño renal inducido por la hematuria de origen glomerular	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Clinical Nephrology	M. Praga Terente	Alberto Marcacuzco Quinto	Estudio comparativo entre enfermos trasplantados de páncreas-riñón simultáneo en diálisis peritoneal frente a hemodiálisis	Complutense de Madrid	Transplant, Tissue Engineering and Regenerative Medicine/Abdominal Organ Transplant	L.C. Jiménez Romero A. Manrique Municio E. Moreno González
Ana Huerta Arroyo	Nefropatía IgA: factores pronósticos clínicos e histopatológicos y respuesta al tratamiento en pacientes de alto riesgo	Complutense de Madrid	Chronic Diseases and Systemic Pathologies/Clinical Nephrology	M. Praga Terente	Selene Pérez García	El sinoviocito fibroblástico en la artrosis: efecto protector de VIP y CRF	Complutense de Madrid	Transplant, Tissue Engineering and Regenerative Medicine/Abdominal Organ Transplant	R.M. Pérez Gomariz Y. Juarranz Moratilla
Mª Gabriela Atencia Cibreiro	Efecto de la inhibición dual de GSK-3 y PDE-7 en un modelo murino de Esclerosis Lateral Amiotrófica	Complutense de Madrid	Rare and Genetic Diseases/Rare, Mitochondrial, and Neuromuscular Diseases	A. García Redondo	Miguel Muñoz Ruiz	Papel del TCR en el desarrollo y función de los linfocitos T y δ efectores	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/Molecular and Cellular Bases in Rheumatic Diseases	J.R. Regueiro González-Barros E. Fernández Malavé B. Silva-Santos
Mª del Pilar Quijada Fraile	Evolución y seguimiento de pacientes detectados en el nuevo cribado de la Comunidad de Madrid: nuestra experiencia	Complutense de Madrid	Rare and Genetic Diseases/Rare, Mitochondrial, and Neuromuscular Diseases	M.º T. García Silva E. Dulín Íñiguez J. Ruiz Contreras	María Baro Fernández	Predicción del riesgo de infección grave en niños con neutropenia febril secundaria a quimioterapia	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/Lymphocyte Immunobiology	J. Ruiz Contreras
Clara Alonso Díaz	Lactancia materna en las Unidades Neonatales españolas. Práctica clínica y factores asociados	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	C.R. Pallás Alonso	Begoña Santiago García	Perfil epidemiológico y clínico de la tuberculosis en niños de la Comunidad Autónoma de Madrid	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	J. Ruiz Contreras
Gemma Sierra Colomina	Mujeres donantes de leche. Caracterización de la población y estudio de las medidas de higiene para la extracción de leche	Complutense de Madrid	Epidemiology and Evaluation of Health Technologies and Services/ Maternal and Infant Health	C.R. Pallás Alonso	Daniel Blázquez Gamero	Factores de riesgo asociados a las secuelas neurológicas y auditivas en la cohorte nacional de niños con infección congénita por citomegalovirus	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	J. Ruiz Contreras P. Rojo Conejo
Sonia Caserío Carbonero	Estudio del proceso de adecuación del esfuerzo terapéutico en una Unidad Neonatal; desde la discusión a las consecuencias de la decisión	Complutense de Madrid	Epidemiology and Evaluation of Health Technologies and Services/ Maternal and Infant Health	C.R. Pallás Alonso	Mª Laura Casado Sánchez	Descripción de la casuística de la prematuridad en Parla (Madrid). Evaluación del desarrollo de un grupo de recién nacidos prematuros vs nacidos a término	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	J. Ruiz Contreras A. Gutiérrez García
					Elena Sánchez Zapardiel	Significado de los anticuerpos anti-MICA y anti-endoteliales en la evolución del trasplante renal	Complutense de Madrid	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	E. Paz Artal

# RESEARCH AREAS

## AND GROUPS

Candidate	Title	University	Research Area/Group	Director(s) of Thesis
Luis Jiménez Roldán	Valor pronóstico del volumen de sangrado intracranegal tras rotura de aneurisma cerebral	Complutense de Madrid	Neuroscience and Mental Health/Neurotraumatology and Subarachnoid Haemorrhage	A. Lagares Gómez-Abascal J.A. Fernández Alen
Ángel Pérez Núñez	Resección de meningiomas intracraneales en el anciano: factores relacionados con la mortalidad y morbilidad postoperatoria	Complutense de Madrid	Neuroscience and Mental Health/Neurotraumatology and Subarachnoid Haemorrhage	A. Lagares Gómez-Abascal J.A. Fernández Alen
Igor Paredes Sansinenea	Craneoplastia: efectos de la reposición del colgajo óseo sobre la hemodinámica cerebral	Complutense de Madrid	Neuroscience and Mental Health/Neurotraumatology and Subarachnoid Haemorrhage	A. Lagares Gómez-Abascal J.A. Fernández Alen P.A. Gómez López
Mercedes Pérez Hernández	Cambios inducidos por MDMA sobre la actividad de las metaloproteinasas e integridad de la barrera hematoencefálica	Complutense de Madrid	Neuroscience and Mental Health/ Addictions and Comorbidity	M. I. Colado Megía
Marta Marín Mayor	El reflejo de sobresalto en la dependencia del alcohol	Complutense de Madrid	Neuroscience and Mental Health/ Addictions and Comorbidity	G. Rubio Valladolid
M. Dolores Ríaza Pérez	Relevancia de la sintomatología depresiva en pacientes con psicosis	Complutense de Madrid	Neuroscience and Mental Health/ Addictions and Comorbidity	G. Rubio Valladolid
Víctor Manuel González Romera	La reducción de la concentración plasmática de glutamato mediante diálisis peritoneal como estrategia para disminuir el daño isquémico cerebral	Complutense de Madrid	Neuroscience and Mental Health/ Neurovascular	I. Lizasoain Hernández M. A. Moro Sánchez J. Sánchez-Prieto Borja

### AREA 1. Cancer

### AREA 2. Chronic Diseases and Systemic Pathologies

### AREA 3. Rare and Genetic Diseases

### AREA 4. Epidemiology and Evaluation of Health Technologies and Services

### AREA 5. Transplant, Tissue Engineering, and Regenerative Medicine

### AREA 6. Inflammatory Diseases and Immune Disorders

### AREA 7. Infectious Disease and AIDS

### AREA 8. Neuroscience and Mental Health

## **CANCER**

**COORDINATOR: JOSÉ LUIS RODRÍGUEZ PERALTO**

**Translational Biophysics**

**Translational Energy Metabolism**

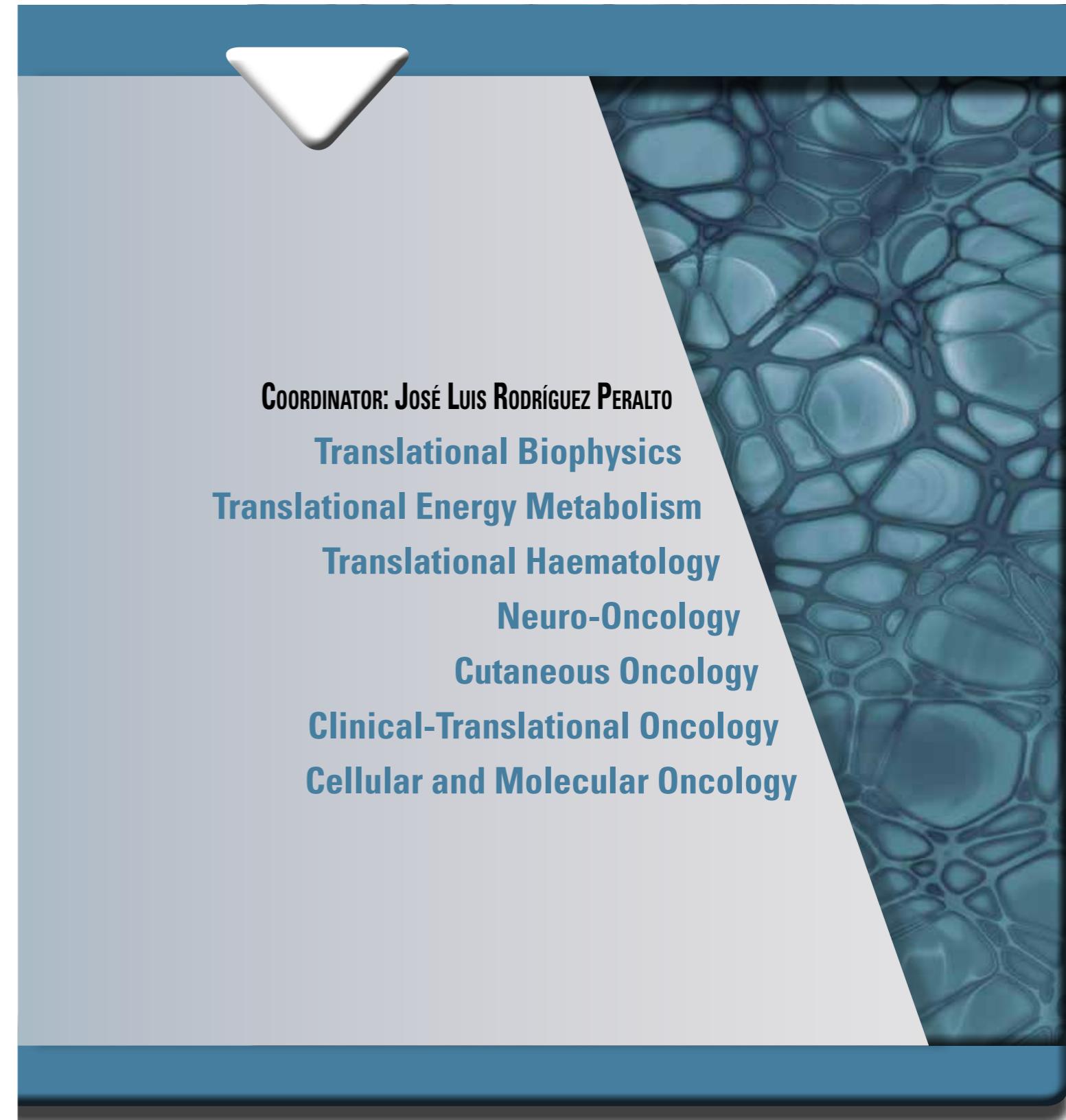
**Translational Haematology**

**Neuro-Oncology**

**Cutaneous Oncology**

**Clinical-Translational Oncology**

**Cellular and Molecular Oncology**



# TRANSLATIONAL BIOPHYSICS



## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	1	8.315
<b>TOTAL</b>	<b>1</b>	<b>8.315</b>

- Fiorini F, Prasetyanto EA, Taraballi F, Pandolfi L, Monroy F, López-Montero I, Tasciotti E, De Cola L. Nanocomposite Hydrogels as Platform for Cells Growth, Proliferation, and Chemotaxis Small. 2016;12:4881-93. IF: 8.315. Article.

## ACTIVE PROJECTS NOT MANAGED

### BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Microfluidic-assisted fabrication of artificial micro-niches for bone marrow stem cells.  
Project No.: EC H2020-MSCA-IF-2015-705163  
Funding Body: European Comission  
Start date: 01/06/2016  
End date: 31/05/2019
- Title: Smart photo-activable devices based in plasmonic nanoparticles: Microfluidic-assisted engineering of a third generation of lipid vesicles.  
Principal Investigator: Francisco Monroy Muñoz  
Project No.: EC PIOF-GA-2012-332078  
Funding Body: European Comission  
Start date: 31/07/2014  
End date: 31/08/2016
- Title: Materia activa accionada mediante polímeros vivos biológicos: Desde la estocasticidad macroscópica a la mecánica macroscópica a través de la hidrodinámica.  
Principal Investigator: Francisco Monroy Muñoz  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Diseño, desarrollo y producción de nanocontenedores y nanovehículos (NANOBIOSOMA).  
Principal Investigator: Francisco Monroy Muñoz  
Project No.: CAM S2013/MAT-2807  
Funding Body: Comunidad de Madrid  
Start date: 30/08/2015  
End date: 31/09/2018

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# TRANSLATIONAL ENERGY

## METABOLISM

## GROUP DIRECTOR

Cuezva Marcos, José Manuel

## RESEARCH

## GROUP MEMBERS

Chamorro Bello, Margarita  
Esparza Molto, Pau Bernat  
Formentini, Laura  
Nuevo Tapioles, Cristina

Núñez de Arenas Flores, Cristina  
Santacatterina, Fulvio  
Soldevilla Navarro, Beatriz  
Torresano Cicuéndez, Laura

### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: La mitocondria y su disfunción en patología: papel de IF1.  
Principal Investigator: José Manuel Cuezva Marcos  
Project No.: SAF2013-41945-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2014  
End date: 31/12/2016  
Project managed by UAM
- Title: Función oncogénica de IF1, el inhibidor de la H<sub>+</sub>ATP sintasa mitocondrial.  
Principal Investigator: José Manuel Cuezva Marcos  
Funding Body: Fundación Ramón Areces  
Start date: 01/05/2015  
End date: 30/04/2017  
Project managed by Fundación Severo Ochoa

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	4	19.732
Reviews	1	9.108
<b>Total</b>	<b>5</b>	<b>28.840</b>

- Santacatterina F, Sánchez-Cenizo L, Formentini L, Mobasher MA, Casas E, Rueda CB, Martínez-Reyes I, Núñez de Arenas C, García-Bermúdez J, Zapata JM, Sánchez-Aragó M, Satrústegui J, Valverde ÁM, Cuezva JM. Down-regulation of oxidative phosphorylation in the liver by expression of the ATPase inhibitory factor 1 induces a tumor-promoter metabolic state. *Oncotarget*. 2016;7:490-508. IF: 5.008. Article.
- Gallego-Villar L, Rivera-Barahona A, Cuevas-Martín C, Guenzel A, Pérez B, Barry MA, Murphy MP, Logan A, Gonzalez-Quintana A, Martín MA, Medina S, Gil-Izquierdo A, Cuezva JM, Richard E, Desviat LR. In vivo evidence of mitochondrial dysfunction and altered redox homeostasis in a genetic mouse model of propionic acidemia: Implications for the pathophysiology of this disorder. *Free Radical Biology and Medicine*. 2016;96:1-12. IF: 5.784. Article.
- Cascajo MV, Abdelmohsen K, Noh JH, Fernández-Ayala DJ, Willers IM, Brea G, López-Lluch G, Valenzuela-Villatoro M, Cuezva JM, Gorospe M, Siendones E, Navas P. RNA-binding proteins regulate cell respiration and coenzyme Q biosynthesis by post-transcriptional regulation of COQ7. *RNA Biology*. 2016;13:622-34. IF: 4.076. Article.
- García-Bermúdez J, Cuezva JM. The ATPase Inhibitory Factor 1 (IF1): A master regulator of energy metabolism and of cell survival. *Biochimica et Biophysica Acta-Bioenergetics*. 2016;1857:1167-82. IF: 4.864. Article.
- Klionsky DJ, Abdelmohsen K, Abe A, Abedin MJ, Abeliovich H, Acevedo Arozena A, Adachi H, Adams CM, Adams PD, Adeli K, Adhiketty PJ, Adler SG, Agam G, Agarwal R, Aghi MK, Agnello M, Agostinis P, Aguilar PV, Cuezva JM, et al. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*. 2016;12:1-222. IF: 9.108. Review.

## THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Fulvio Santacatterina  
**Title:** Metabolismo energético en patología y su traslación a la clínica.  
**Director/s:** José Manuel Cuezva Marcos  
**Date Defended:** 01/07/2016  
**University:** Universidad Autónoma de Madrid

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# TRANSLATIONAL HAEMATOLOGY

## RESEARCH

### GROUP MEMBERS

#### GROUP DIRECTOR

Martínez López, Joaquín  
Lahuerta Palacios, Juan José

Arenas Cortes, Alicia	Martínez Sánchez, Mª Pilar
Ayala Díaz, Rosa Mª	Montero Simón, Cristina
Canal López, Alicia	Morales Fernández, Mª Luz
Cedena Romero, Mª Teresa	Onecha de la Fuente, Mª Esther
Cuenca Navarro, Isabel	Onsurbe Castro, Emilia
de la Serna Torroba, Javier	Ortiz Ruiz, Alejandra
García Minuesa, Rebeca	Portasany Trovo, Mª del Pilar
Grande García, Carlos	Rapado Martínez, Mª Inmaculada
Jiménez Ubieto, Ana Isabel	Rivero Ruiz, Ana
Juez Gastañaga, Carolina	Rodríguez Izquierdo, Antonia
Leivas Aldea, Alejandra	Ruiz Heredia, Yanira
Linares Gómez, María	Sánchez Pérez, Ricardo
López-Anglada Fernández, Lucía	Sánchez-Vega Carrión, Beatriz
Marín Sebastián, Carlos	Torrero Alía, María
Martín Ramos, Mª Luisa	Valeri Lozano, Antonio

#### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	FIPSE	1
Competitive	AECC	1
Noncompetitive	Various	12
<b>TOTAL</b>		<b>18</b>

- Title: Evaluación ultra-sensible de enfermedad residual como biomarcador de curabilidad en dos modelos de mieloma múltiple (sintomático y quiescente de alto riesgo).  
Principal Investigator: Juan José Lahuerta Palacios  
Project No.: PI15/02062  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Start date: 17/02/2016  
End date: 17/08/2016
- Title: Heterogeneidad evolutiva del mieloma múltiple como reflejo de resistencia tumoral: proyecto basado en dos ensayos multicéntricos.  
Principal Investigator: Juan José Lahuerta Palacios  
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)  
Start date: 14/09/2012  
End date: 13/09/2017
- Title: Estrategias de nueva generación para la caracterización molecular global del Clon Tumoral en el mieloma múltiple: implicaciones en diagnóstico clínico y patogenia de la enfermedad.  
Principal Investigator: Joaquín Martínez López  
Project No.: PI15/01484  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Mejora de la monitorización molecular en pacientes con LMC. "Estudio MORE".  
Principal Investigator: Joaquín Martínez López  
Funding Body: Fundación Española de Hematología y Hemoterapia  
Start date: 03/11/2011  
End date: 02/11/2015, extended to 30/04/2016
- Title: Implicaciones clínicas de la detección de mutaciones recurrentes por secuenciación masiva de paneles en leucemia mieloide aguda, y correlación con la sensibilidad a fármacos antileucemia.  
Principal Investigator: Rosa Mª Ayala Díaz  
Project No.: PI13/02387  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016
- Title: Convenio para el fomento de la colaboración en actividades de investigación. Investigación Traslacional en Hematología.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Fundación Investigación CRIS Contra el cáncer  
Start date: 27/01/2011  
End date: 31/12/2014, extended to 31/01/2016
- Title: Búsqueda de nuevas dianas terapéuticas en Oncohematología.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Fundación Investigación CRIS Contra el Cáncer  
Start date: 2/01/2015  
End date: 31/12/2017
- Title: Programa de Mieloma Múltiple.  
Principal Investigator: Juan José Lahuerta Palacios  
Funding Body: Fundación PETHEMA para el tratamiento de la leucemia y el linfoma  
Start date: 22/10/2013  
End date: 31/12/2015, extended to 31/12/2016
- Title: Mieloma Múltiple: grupos de riesgo basados en nuevos biomarcadores y evaluación de intervenciones terapéuticas con intención curativa con técnicas para EMR de alta sensibilidad.  
Principal Investigator: Juan José Lahuerta Palacios  
Project No.: PI12/01761  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 31/03/2017
- Title: Plan de empresa para la puesta en marcha de una spin-off en el AREA de hematología del i+12.  
Principal Investigator: Joaquín Martínez López  
Project No.: 2016/0033  
Funding Body: Fundación para la Innovación y la Prospectiva en Salud en España (FIPSE)

- Title: Secuenciación masiva profunda para el análisis de mutaciones en el dominio quinasa de la proteína quimérica BCR/ABL1 en pacientes con LLA Y LMC.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Incyte Biosciences Iberia, S.L.  
Start date: 28/04/2016  
End date: 27/04/2017
- Title: Effect of IMIDS over NK cells and activated and expanded NK cells in multiple myeloma.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Celgene, S.L.  
Start date: 01/12/2016  
End date: 30/11/2018
- Title: Preclinical mieloma multiple study. HGF-MET signaling as therapeutic target in multiple myeloma. PROTO-COLO WI206350.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Pfizer, S.L.U.  
Start date: 26/10/2016  
End date: 31/12/2016
- Title: Phase IB clinical trial of OPB-111077 in patients with relapsed or refractory acute myeloid leukaemia.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Otsuka Pharmaceutical, S.A.  
Start date: 09/09/2016  
End date: 09/03/2017
- Title: Minimal residual disease assessment by multiparametric flow cytometry and deep sequencing of Ig genes for patients that achieve complete response or near complete response after induction or transplantation.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Celgene, S.L.  
Start date: 08/12/2014  
End date: 07/12/2017
- Title: Programa de investigación clínica y recogida de datos clínicos en Oncohematología.  
Principal Investigator: Juan José Lahuer Palacios  
Funding Body: Amgen, S.A.  
Start date: 01/05/2015  
End date: 30/04/2018
- Title: Personalized medicine, looking for the best partner of Ruxolitinib (INCIB-018424) in Chronic Myeloproliferative Neoplasias (CMPN).  
Principal Investigator: Joaquín Martínez López  
Funding Body: Novartis Farmacéutica, S.A.  
Start date: 01/12/2012  
End date: 30/05/2016
- Title: Determinación de enfermedad mínima residual en mieloma múltiple por CMF de alta sensibilidad.  
Principal Investigator: Joaquín Martínez López  
Funding Body: Janssen-Cilag, S.A.  
Start date: 26/03/2015  
End date: 25/03/2018
- Ríos-Tamayo R, Lupiañez CB, Campa D, Hielscher T, Weinhold N, Martínez-López J, Jerez A, Landi S, Jamroziak K, Dumontet C, Watek M, Lesueur F, Reis RM, Marques H, Jurczyszyn A, Vogel U, Buda G, García-Sanz R, Orciuolo E, Petrini M, Vangsted AJ, Gemignani F, Först A, Goldschmidt H, Hemminki K, Canzian F, Jurado M, Sainz J. A common variant within the HNF1B gene is associated with overall survival of multiple myeloma patients: Results from the IMMEnSE consortium and meta-analysis. *Oncotarget*. 2016;7:59029-48. IF: 5.008. Article.
- Bergua JM, Montesinos P, Martínez-Cuadrón D, Fernández-Abellán P, Serrano J, Sayas MJ, Prieto-Fernandez J, García R, García-Huerta AJ, Barrios M, Benavente C, Pérez-Encinas M, Simiele A, Rodríguez-Macias G, Herrera-Puente P, Rodríguez-Veiga R, Martínez-Sánchez MP, Amador-Barciela ML, Riaza-Grau R, Sanz MA; PETHEMA group. A prognostic model for survival after salvage treatment with FLAG-Ida plus /- gemtuzumab-ozogamicine in adult patients with refractory/relapsed acute myeloid leukaemia. *British Journal of Haematology*. 2016;174:700-10. IF: 5.812. Article.
- Weisel KC, Dimopoulos MA, Moreau P, Lacy MQ, Song KW, Delforge M, Karlin L, Goldschmidt H, Banos A, Oriol A, Alegre A, Chen C, Cavo M, Garderet L, Ivanova V, Martínez-López J, Knop S, Yu X, Hong K, Sternas L, Jacques C, Zaki MH, San Miguel J. Analysis of renal impairment in MM-003, a phase III study of pomalidomide plus low-dose dexamethasone versus high-dose dexamethasone in refractory or relapsed and refractory multiple myeloma. *Haematologica*. 2016;101:872-8. IF: 6.671. Article.
- Alvarez-Larrán A, Pereira A, Guglielmelli P, Hernández-Boluda JC, Arellano-Rodrigo E, Ferrer-Marín F, Samah A, Griesshammer M, Kerguelen A, Andreasson B, Burgaleta C, Schwarz J, García-Gutiérrez V, Ayala R, Barba P, Gómez-Casares MT, Paoli C, Drexler B, Zweegman S, McMullin MF, Samuelsson J, Harrison C, Cervantes F, Vannucchi AM, Besses C. Antiplatelet therapy versus observation in low-risk essential thrombocythemia with a CALR mutation. *Haematologica*. 2016;101:926-31. IF: 6.671. Article.
- Kantarjian HM, Stein AS, Bargou RC, Grande Garcia C, Larson RA, Stelljes M, Gökbüget N, Zugmaier G, Benjamin JE, Zhang A, Jia C, Topp MS. Blinatumomab treatment of older adults with relapsed/refractory B-precursor acute lymphoblastic leukemia: Results from 2 phase 2 studies. *Cancer*. 2016;122:2178-85. IF: 5.649. Article.
- Dimopoulos MA, Moreau P, Palumbo A, Joshua D, Pour L, Hájek R, Facon T, Ludwig H, Oriol A, Goldschmidt H, Rosiñol L, Straub J, Suvorov A, Araujo C, Rimashevskaya E, Pika T, Gaidano G, Weisel K, Goranova-Marinova V, Schwarer A, Minuk L, Masszi T, Karamanesh I, Offidani M, Hungria V, Spencer A, Orłowski RZ, Gillenwater HH, Mohamed N, Feng S, Chng WJ; ENDEAVOR Investigators. Carfilzomib and dexamethasone versus bortezomib and dexamethasone for patients with relapsed or refractory multiple myeloma (ENDEAVOR): a randomised, phase 3, open-label, multicentre study. *Lancet Oncology*. 2016;17:27-38. IF: 26.509. Article.
- Osorio S, Casado LF, Giraldo P, Maestro B, Andrade M, Redondo S, García-Gutiérrez V, Ayala R, García N, Steegmann JL. Chronic myeloid leukaemia in Spain: Its presentation characteristics have changed. Spanish section of the EUTOS population-based registry. *Revista Clínica Española*. 2016;216:293-300. IF: 0.760. Article.
- Martínez-Flores JA, Serrano M, Pérez D, Cámara A G, Lora D, Morillas L, Ayala R, Paz-Artal E, Morales JM, Serrano A. Circulating Immune Complexes of IgA Bound to Beta 2 Glycoprotein are Strongly Associated with the Occurrence of Acute Thrombotic Events. *Journal of Atherosclerosis and Thrombosis*. 2016;23:1242-53. IF: 2.411. Article.
- Besses C, Hernandez-Boluda JC, Perez Encinas M, Raya JM, Hernandez-Rivas JM, Jimenez Velasco A, Martinez Lopez J, Vicente V, Burgaleta C; GEMFIN. Current opinion and consensus statement regarding the diagnosis, prognosis, and treatment of patients with essential thrombocythemia: a survey of the Spanish Group of Ph-negative Myeloproliferative Neoplasms (GEMFIN) using the Delphi method. *Annals of Hematology*. 2016;95:719-32. IF: 3.022. Article.
- Palumbo A, Chanhan-Khan A, Weisel K, Nooka AK, Masszi T, Beksac M, Spicka I, Hungria V, Munder M, Mateos MV, Mark TM, Qi M, Schechter J, Amin H, Qin X, Deraedt W,

#### PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	37	314.896
Reviews	1	5.039
Editorials	1	5.569
<b>Total</b>	<b>39</b>	<b>325.504</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Ahmadi T, Spencer A, Sonneveld P; CASTOR Investigators. Daratumumab, Bortezomib, and Dexamethasone for Multiple Myeloma. *New England Journal of Medicine*. 2016;375:754-66. IF: 59.558. Article.
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  - Paiva B, Mateos MV, Sanchez-Abarca LI, Puig N, Vidriales MB, López-Corral L, Corchete LA, Hernandez MT, Bargay J, de Arriba F, De La Rubia J, Teruel AI, Giraldo P, Rosiñol L, Prosper F, Oriol A, Hernández J, Esteves G, Lahuerta JJ, Blade J, Perez-Simon JA, San Miguel JF. Immune status of high-risk smouldering multiple myeloma patients and its therapeutic modulation under LenDex: a longitudinal analysis. *Blood*. 2016;127:1151-62. IF: 11.847. Article.
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▪ De La Serna J, Sanz J, Bermúdez A, Cabrero M, Serrano D, Vallejo C, Gómez V, Moraleda JM, Perez SG, Caballero MD, Conde E, Lahuerta JJ, Sanz G. Toxicity and efficacy of busulfan and fludarabine myeloablative conditioning for HLA-identical sibling allogeneic hematopoietic cell transplantation in AML and MDS. *Bone Marrow Transplantation*. 2016;51:961-6. IF: 3.636. Article.

▪ Cordoba R, Sanchez-Beato M, Herreros B, Domenech E, Garcia-Marco J, Garcia JF, Martinez-Lopez J, Rodriguez A, Garcia-Raso A, Llamas P, Piris MA. Two distinct molecular subtypes of chronic lymphocytic leukemia give new insights on the pathogenesis of the disease and identify novel therapeutic targets. *Leukemia & Lymphoma*. 2016;57:134-42. IF: 3.093. Article.

▪ Santos-Lozano A, Morales-Gonzalez A, Sanchis-Gomar F, Cristi-Montero C, Fiua-Luces C, Pareja-Galeano H, Martínez-López J, Garatachea N, Lucia A. Response rate to the treatment of Waldenstrom macroglobulinemia: A meta-analysis of the results of clinical trials. *Critical Reviews in Oncology Hematology*. 2016;105:118-26. IF: 5.039. Review.

▪ Perea J, Arriba M, Rueda D, Sánchez R, García JL, Pérez J, Rodríguez Y, González-Sarmiento R, Urioste M,

Comment on 'Wild-type APC prediction of poor prognosis in microsatellite-stable proximal colorectal cancer differs according to the age of onset'. *British Journal of Cancer*. 2016;114(10):e7. IF: 5.569. Editorial Material.

▪ Zinzani PL, Karlin L, Radford J, Caballero D, Fields P, Chamuleau ME, D'Amore F, Haioun C, Thieblemont C, González-Barca E, Grande García C, Johnson PW, van Imhoff GW, Ng T, Dwyer K, Morschhauser F. European phase II study of mogamulizumab, an anti-CCR4 monoclonal antibody, in relapsed/refractory peripheral

T-cell lymphoma. *Haematologica*. 2016;101:407-10. IF: 6.671. Letter.

- Sanz-Motilva V, Castellanos-González M, Martínez Sánchez P, Ortiz de Frutos J, Ortiz-Romero PL, Rodríguez-Peralto JL, Vanaclocha-Sebastián F. Lesiones ecceosas y cuadro ictiosiforme adquirido como forma de presentación de un linfoma anaplásico de células grandes CD30. *Semergen*. 2016;42:208-10. IF: 0.000. Letter.

### THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Álvaro García Sesma  
**Title:** Quimerismo leucocitario en el trasplante hepático. Hacia la utopía de la inmunotolerancia y la no inmunosupresión.  
**Director/s:** Enrique Moreno González, Rosa Mª Ayala Díaz, Carmelo Loinza Segurola  
**Date Defended:** 12/01/2016  
**University:** Universidad Complutense de Madrid
- **Candidate:** Mª Teresa Cedena Romero  
**Title:** Impacto clínico de las aberrancias inmunofenotípicas y perfil mutacional en síndromes mielodisplásicos.  
**Director/s:** Florinda Gilsanz Rodríguez, Joaquín Martínez López  
**Date Defended:** 01/04/2016  
**University:** Universidad Complutense de Madrid

**Director/s:** Florinda Gilsanz Rodríguez, Joaquín Martínez López, Rosa Mª Ayala Díaz

**Date Defended:** 08/02/2016

**University:** Universidad Complutense de Madrid

- **Candidate:** Juan Manuel Alonso Domínguez  
**Title:** Impacto clínico de las aberrancias inmunofenotípicas y perfil mutacional en síndromes mielodisplásicos.  
**Director/s:** Florinda Gilsanz Rodríguez, Joaquín Martínez López  
**Date Defended:** 01/04/2016  
**University:** Universidad Complutense de Madrid

**Title:** Método para cuantificar el nivel de Enfermedad Mínima Residual en un sujeto.

**Inventors:** Joaquín Martínez López, Santiago Barrio García, Carlos Martín Sebastián, Mª Inmaculada Rapado Martínez, Rosa Mª Ayala Díaz, Beatriz Sánchez Vega Carrión.

**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).

**European Patent Application No.:** P14191967.

**Date of application:** 05/11/2014

### PATENTS

- **Title:** Método para cuantificar el nivel de Enfermedad Mínima Residual en un sujeto.  
**Número:** 14932267.  
**Type:** USA.  
**Inventors:** Santiago Barrio García, Joaquín Martínez López, Carlos Martín Sebastián, Mª Inmaculada Rapado Martínez, Rosa Mª Ayala Díaz, Beatriz Sánchez Vega Carrión.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).  
**Date of application:** 04/11/2015

- Title:** Método diagnóstico de Trombocitemia Esencial y Kit para realizarlo.
- Inventors:** Joaquín Martínez López, Miguel Gallardo Delgado, Óscar Toldos González.
- Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (50%), Fundación CRIS de Investigación Contra el Cáncer (50%).
- Spanish Patent Application No.:** P201330446.
- Date of application:** 26/03/2013

#### PRIZES AND DISTINCTIONS

- Prize for the best contribution at the LVIII Congreso Nacional de la Sociedad Española de Hematología y Hemostasia, Santiago de Compostela, Spain. 20-22 October 2016. In: Haematologica 2016; S4: Plenary Session; Development of a predictive model to identify patients with multiple myeloma not eligible for autologous transplant who are at risk for severe infections using data from the first trial (MM-020).

Winner: Joaquín Martínez López.

## NEURO-ONCOLOGY



Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	5
<b>TOTAL</b>		<b>6</b>

- Title: Búsqueda de alteraciones genéticas diferenciales entre los distintos subgrupos de glioblastomas primarios. Aplicaciones diagnósticas y terapéuticas.  
Principal Investigator: Aurelio Hernández Laín  
Project No.: PI13/01258  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 30/12/2016
- Title: Análisis histológico, radiológico y molecular de la respuesta a Bevacizumab en pacientes con recidiva de glioblastoma. Búsqueda de marcadores predictivos.  
Principal Investigator: Juan Manuel Sepúlveda Sánchez  
Funding Body: Grupo Español de Investigación en Neurooncología Médica  
Start date: 18/02/2013  
End date: 17/12/2016
- Title: Study of the antitumour efficacy of S55478 in preclinical models of glioblastoma.  
Principal Investigator: Juan Manuel Sepúlveda Sánchez  
Funding Body: Institut de Recherches Internationales Servier
- Title: Efecto de Ocoxin+Viusid sobre el crecimiento y supervivencia de los tumores gliales.

- Principal Investigator: Juan Manuel Sepúlveda Sánchez  
Funding Body: Catalysis, S.L.  
Start date: 31/03/2016  
End date: 31/10/2016
- Title: Dianas moleculares de ROS1, ALK y MET en Glioblastomas.  
Principal Investigator: Juan Manuel Sepúlveda Sánchez  
Funding Body: Grupo Español de Investigación en Neurooncología Médica

Start date: 01/05/2013  
End date: 30/09/2015, extended to 31/07/2017

- Title: Estudio sobre la eficacia de la inhibición de DYRK1A en modelos preclínicos de glioblastoma.

Principal Investigator: Juan Manuel Sepúlveda Sánchez  
Funding Body: Pfizer, S.L.U.  
Start date: 24/02/2015  
End date: 30/06/2016

#### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Resistencia mediada por el microambiente en glioblastoma: caracterización de su relevancia biológica y propuesta de aproximaciones terapéuticas sinérgicas.  
Principal Investigator: Pilar Sánchez Gómez  
Project No.: SAF2015-65175-R  
Funding Body: Ministerio de Economía, Industria y Competitividad (MINECO)  
Start date: 2016  
End date: 2018
- Title: Efecto de Ocoxin+Viusid sobre el crecimiento y supervivencia de los tumores gliales.  
Principal Investigator: Pilar Sánchez Gómez  
Funding Body: Catalysis, S.L.  
Start date: 2016  
End date: 2017
- Title: Enmienda al protocolo GEINO11-Estudio retrospectivo de biomarcadores.  
Principal Investigator: Juan Manuel Sepúlveda Sánchez  
Funding Body: Pfizer, S.A.  
Start date: 2014  
End date: 2016
- Title: Therapy optimization in glioblastoma: an integrative human data-based approach using mathematical models.  
Principal Investigator: Victor Pérez García (Universidad de Castilla-La Mancha)  
Funding Body: James S. Mc. Donnell Foundation  
Start date: 2016

End date: 2019

#### PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	12	37.931
Reviews	2	4.401
Editorials	2	10.879
<b>Total</b>	<b>16</b>	<b>53.211</b>

- Brandes AA, Carpenter AF, Kesari S, Sepulveda-Sánchez JM, Wheeler HR, Chinot O, Cher L, Steinbach JP, Capper D, Specenier P, Rodon J, Cleverly A, Smith C, Gueorguieva I, Miles C, Guba SC, Desaiyah D, Lahn MM, Wick W. A Phase II randomized study of galunisertib monotherapy or galunisertib plus lomustine compared with lomustine monotherapy in patients with recurrent glioblastoma. *Neuro-Oncology*. 2016;18: 1146-56. IF: 7.371. Article.
- Clemente-Gutiérrez F, Pérez-Vara C, Clavo-Herranz MH, López-Carrizosa C, Pérez-Regadera J, Ibáñez-Villalobos C. Assessment of radiobiological metrics applied to patient-specific QA process of VMAT prostate treatments. *Journal of Applied Clinical Medical Physics*. 2016;17:341-67. IF: 1.444. Article.
- Lobato RD, Jiménez Roldán L, Alén JF, Castaño AM, Munarriz PM, Cepeda S, Lagares A. Competency-based Neurosurgery Residency Programme. *Neurocirugia*. 2016; 27:75-86. IF: 0.410. Article.
- Gómez-Cabeira E, Ivanovic-Barbeito Y, Gutiérrez-Martínez E, Morales E, Abradello M, Hilario A, Ramos A, Ruiz-Morales J, Villarejo-Galende A. Eculizumab-related progressive multifocal leukoencephalopathy. *Neurology*. 2016;86:399-400. IF: 8.166. Article.
- Domínguez-Pinilla N, Martínez de Aragón A, Diéguez Tapias S, Toldos O, Hinojosa Bernal J, Rigal Andrés M, González-Granado LI. Evaluating the apparent diffusion coefficient in MRI studies as a means of determining paediatric brain tumour stages. *Neurologia*. 2016;31:459-65. IF: 1.790. Article.
- Lora D, Contador I, Pérez-Regadera JF, Gómez de la Camara A. Features of the area under the receiver operating characteristic (ROC) curve. A good practice. *Stata Journal*. 2016;16:185-96. IF: 1.292. Article.
- Pérez-Segura P, Manneh R, Ceballos I, García A, Benavides M, Fuster J, Vaz MA, Cano JM, Berros JP, Covela M, Moreno V, Quintanar T, García Bueno JM, Fernández I, Sepúlveda J. GEINOFOTE: efficacy and safety of fotemustine in patients with high-grade recurrent gliomas and poor performance status. *Clinical & Translational Oncology*. 2016;18:805-12. IF: 2.075. Article.
- Molina D, Pérez-Beteta J, Martínez-González A, Sepulveda JM, Peralta S, Gil-Gil MJ, Reynes G, Herrero A, De Las Penas R, Luque R, Capellades J, Balana C, Pérez-García VM. Geometrical Measures Obtained from Pretreatment Postcontrast T1 Weighted MRIs Predict Survival Benefits from Bevacizumab in Glioblastoma Patients. *PLoS One*. 2016;11(8):e0161484. IF: 3.057. Article.
- de Fuenmayor-Fernández de la Hoz CP, Hernández-Laín A, Olivé M, Fernández-Marmiesse A, Domínguez-González C. Novel mutation in TCAP manifesting with asymmetric calves and early-onset joint retractions. *Neuromuscular Disorders*. 2016;26:749-53. IF: 3.107. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Arráez-Aybar LA, Fuentes-Redondo T, Millán JM. Persistent trigeminal artery: a cross-sectional study based on over 3 years conventional angiography, CT angiography and MR angiography images. *Surgical and Radiologic Anatomy*. 2016;38:445-53. IF: 1.195. Article.
- Yubero D, Montero R, Martín MA, Montoya J, Ribes A, Grazina M, Trevisson E, Rodriguez-Aguilera JC, Hargreaves IP, Salviati L, Navas P, Artuch R, CoQ deficiency study group, Jou C, Jimenez-Mallebrera C, Nascimento A, Pérez-Dueñas B, Ortez C, Ramos F, Colomer J, O'Callaghan M, Pineda M, García-Cazorla A, Espinós C, Ruiz A, Macaya A, Marcé-Grau A, Garcia-Villoria J, Arias A, Emperador S, Ruiz-Pesini E, Lopez-Gallardo E, Neergheen V, Simões M, Diogo L, Blázquez A, González-Quintana A, Delmiro A, Domínguez-González C, Arenas J, García-Silva MT, Martín E, Quijada P, Hernández-Laín A, Morán M, Rivas Infante E, Ávila Polo R, Paradas López C, Bautista Lorite J, Martínez Fernández EM, Cortés AB, Sánchez-Cuesta A, Cascajo MV, Alcázar M, Brea-Calvo G. Secondary coenzyme Q(10) deficiencies in oxidative phosphorylation (OXPHOS) and non-OXPHOS disorders. *Mitochondrion*. 2016;30:51-8. IF: 3.647. Article.
- Paredes I, Castaño-Leon AM, Cepeda S, Alen JF, Salvador E, Millán JM, Lagares A. The Effect of Cranioplasty on Cerebral Hemodynamics as Measured by Perfusion Computed Tomography and Doppler Ultrasonography. *Journal of Neurotrauma*. 2016;33:1586-97. IF: 4.377. Article.
- Laimito KR, Gámez-Pozo A, Sepúlveda J, Manso L, López-Vacas R, Pascual T, Fresno Vara JA, Ciruelos E. Characterisation of the triple negative breast cancer phenotype associated with the development of central nervous system metastases. *Ecancermedicalscience*. 2016;10:632. IF: N/A. Article.
- Manneh R, Castellano D, Caso O, Loinaz C, Jiménez J, Estenoz J, Calatayud M, Sepúlveda JM, García-Carbonero R. Well-Differentiated Grade 2, Type 3 Gastrointestinal Neuroendocrine Tumour with Bilateral Metastatic Ovarian Involvement: Report of an Unusual Case. *Case Reports in Oncology*. 2016;9:255-61. IF: N/A. Article.
- Lambea J, Anido U, Etxániz O, Flores L, Montesa Á, Sepúlveda JM, Esteban E. The Wide Experience of the Sequential Therapy for Patients with Metastatic Renal Cell Carcinoma. *Current Oncology Reports*. 2016;18:66. IF: 2.653. Review.
- Matarazzo M, Galán Sánchez-Seco V, Méndez-Guerrero AJ, Gata-Maya D, Domingo-Santos Á, Ruiz-Morales J, Benito-León J. Drug-Related Eyelid Nystagmus: Two Cases of a Rare Clinical Phenomenon Related to Carbamazepine and Derivatives. *Clinical Neuropharmacology*. 2016;39:49-50. IF: 1.748. Review.
- de Fuenmayor-Fernández de la Hoz CP, Domínguez-González C, Gonzalo-Martínez JF, Esteban-Pérez J, Fernández-Marmiesse A, Arenas J, Martín MA, Hernández-Laín A. A milder phenotype of megaconial congenital muscular dystrophy due to a novel CHKB Mutation. *Muscle & Nerve*. 2016;54:806-8. IF: 2.713. Editorial Material.
- Hernandez-Lain A, Hilario A, Sepulveda JM, Cantero D, Ramos A, Perez-Nuñez A. Temozolomide induces radiologic pseudoprogression and tumor cell vanishing in oligodendroglioma. *Neurology*. 2016;87:114-5. IF: 8.166. Editorial Material.
- - Domingo-Santos Á, Sepúlveda M, Matarazzo M, Calleja-Castaño P, Ramos-González A, Saiz A, Benito-León J. Intravenous Immunoglobulin Therapy in a Patient With Anti-Myelin Oligodendrocyte Glycoprotein-Seropositive Neuromyelitis Optica. *Clinical Neuropharmacology*. 2016;39:332-4. IF: 1.748. Letter.
- González Sánchez M, Llorente Ayuso L, Ruiz Morales J, Martínez Salio A. Neuropathic pruritus as the presenting symptom of lupus transverse myelitis. *Journal of the Neurological Sciences*. 2016;368:138-9. IF: 2.126. Letter.
- Castaño-Leon AM, Hernandez-Lain A, Maronas L, Lopez P, Llorente Ayuso L, Ramos A, Perez-Regadera J, Jimenez Roldan L. Pathology-confirmed cerebral arterial invasion and recurrent multiple brain metastasis from cardiac myxoma without evidence of disease after surgery and radiotherapy. *Clinical Neuropathology*. 2016;35:84-8. IF: 1.267. Letter.

**THESES DEFENDED OR DIRECTED IN THIS GROUP**▪ **Candidate:** Julio Arévalo Pérez

**Title:** Utilidad de la RM con contraste potenciada en T1 en la valoración de neoplasias del SNC y cambios inducidos en la medula ósea de la columna vertebral.

**Director/s:** Ana Ramos González

**Date Defended:** 01/02/2016

**University:** Universidad Complutense de Madrid

# CUTANEOUS ONCOLOGY



## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	Fundación Mutua Madrileña	1
Competitive	AECC	2
Competitive	Fundación Marqués de Valdecilla	1
Noncompetitive	Various	4
<b>TOTAL</b>		<b>12</b>

- Title: Estudio de investigación traslacional asociada al ensayo Pimtomf. Identificación y desarrollo de terapia dirigida a dianas.  
Principal Investigator: Pablo Luis Ortiz Romero  
Project No.: PI14/01784  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Identificación de mecanismos de resistencia tumoral del melanoma a los inhibidores de la mutación BRAFV600E.  
Principal Investigator: José Luis Rodríguez Peralto
- Project No.: PI14/01737  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Investigación traslacional en linfomas cutáneos primarios.  
Principal Investigator: Pablo Luis Ortiz Romero  
Project No.: PI11/01759  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2012  
End date: 30/12/2014, extended to 31/03/2016

- Title: Construcción de un panel de marcadores diagnóstico para lesiones melanocíticas y caracterización de la expresión del Oncogen DID en melanoma.  
Principal Investigator: José Luis Rodríguez Peralto  
Project No.: PI11/02568  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2012  
End date: 30/12/2014, extended to 30/06/2016
- Title: Estudio de la heterogeneidad intra- e inter-tumoral de la mutación BRAFV600E en la progresión tumoral del melanoma.  
Principal Investigator: Erica Riveiro Meireles  
Project No.: FIMM 2013/0075  
Funding Body: Fundación Mutua Madrileña  
Start date: 19/09/2013  
End date: 18/09/2015, extended to 18/12/2016
- Title: Vías de diseminación metastásica en distintos subtipos del melanoma maligno: nuevos biomarcadores tumorales y dianas terapéuticas.  
Principal Investigator: José Luis Rodríguez Peralto, Pablo Luis Ortiz Romero  
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO)  
Start date: 1/07/2015  
End date: 30/06/2020
- Title: Construcción de un panel de marcadores diagnósticos para lesiones melanocíticas e identificación de nueva diana terapéutica en melanoma.  
Principal Investigator: Erica Riveiro Meireles  
Project No.: 2012/0066  
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)  
Start date: 01/09/2012  
End date: 31/08/2015, extended to 31/08/2017
- Title: Neoplasias hematológicas, terapia apoyada en el diagnóstico molecular.
- Title: Validación de IDYLLA TM BRAF Mutation Test (biocartis) y los sistemas cobas® 4800 BRAF V600 Mutation TEST (Roche Molecular Diagnostics) en la determinación de la mutación de BRAF V600 en muestras de tejido de melanoma metastásico en práctica rutinaria del laboratorio de anatomía patológica.  
Principal Investigator: José Luis Rodríguez Peralto  
Funding Body: Roche Farma, S.A.  
Start date: 21/12/2016  
End date: 20/04/2018
- Title: Identificación de la expresión de la oncoproteína dek en matrices tisulares de lesiones melanocíticas.  
Principal Investigator: José Luis Rodríguez Peralto  
Funding Body: Genomica, S.A.U.  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Biomarker Point. Estudio de Biomarcadores en Cáncer.  
Principal Investigator: José Luis Rodríguez Peralto  
Funding Body: Roche Farma, S.A.  
Start date: 24/07/2013  
End date: 23/07/2016, extended to 31/12/2016
- Title: Determinación de las Mutaciones del Gen EGFR y otras alteraciones moleculares en el Carcinoma Pulmonar No Microcítico.  
Principal Investigator: José Luis Rodríguez Peralto  
Funding Body: Astra-Zeneca Farmaceutica Spain, S.A.  
Start date: 31/10/2013  
End date: 30/10/2016

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	12	52.351
Editorials	4	9.033
<b>Total</b>	<b>16</b>	<b>61.384</b>

- Cedres S, Ponce-Aix S, Pardo-Aranda N, Navarro-Mendivil A, Martinez-Martí A, Zugazagoitia J, Sansano I, Montoro MA, Enguita A, Felip E. Analysis of expression of PTEN/PI3 K pathway and programmed cell death ligand 1 (PD-L1) in malignant pleural mesothelioma (MPM). *Lung Cancer*. 2016;96:1-6. IF: 3.767. Article.
- Manso L, Mourón S, Tress M, Gómez-López G, Morente M, Ciruelos E, Rubio-Camarillo M, Rodriguez-Peralto JL, Pujana MA, Pisano DG, Quintela-Fandino M. Analysis of Paired Primary-Metastatic Hormone-Receptor Positive Breast Tumors (HRPBC) Uncovers Potential Novel Drivers of Hormonal Resistance. *PLoS One*. 2016;11(5):e0155840. IF: 3.057. Article.
- Morales-Raya C, Maroñas-Jiménez L, Burillo-Martínez S, Ortiz-Romero PL. Anetodermia primaria: un marcador cutáneo de estados protrombóticos. *Medicina Clinica*. 2016;147:e47. IF: 1.267. Article.
- Martínez-Iglesias OA, Alonso-Merino E, Gómez-Rey S, Velasco-Martín JP, Martín Orozco R, Luengo E, García Martín R, Ibáñez de Cáceres I, Fernández AF, Fraga MF, González-Peramato P, Varona C, Palacios J, Regadera J, Aranda A. Autoregulatory loop of nuclear corepressor 1 expression controls invasion, tumor growth, and metastasis. *Proceedings of the National Academy of Sciences of The United States of America*. 2016;113:328-37. IF: 9.423. Article.
- Fernandez-Flores A, Rodriguez-Peralto JL. Messy granuloma: an additional pattern of granulomatous reaction *Romanian Journal of Morphology and Embryology*. 2016;57:51-7. IF: 0.811. Article.

- Fernandez-Flores A, Rodriguez-Peralto JL. Morphological and immunohistochemical clues for the diagnosis of cutaneous leishmaniasis and the interpretation of CD1a status. *Journal of the American Academy of Dermatology*. 2016;74:536-43. IF: 5.621. Article.
- Sanlorenzo M, Vujic I, Posch C, Ma J, Lin K, Lai K, Oses-Prieto JA, Chand S, Rodriguez-Peralto JL, Burlingame A, Ortiz-Urdá S. Oncogenic KIT mutations in different exons lead to specific changes in melanocyte phosphoproteome. *Journal of Proteomics*. 2016;144:140-7. IF: 3.867. Article.
- Maronas-Jimenez L, Krakowski AC. Pediatric Acne Clinical Patterns and Pearls. *Dermatologic Clinics*. 2016;34:195. IF: 1.875. Article.
- Child F, Ortiz-Romero PL, Alvarez R, Bagot M, Stadler R, Weichenthal M, Alves R, Quaglino P, Beylot-Barry M, Cowan R, Geskin LJ, Perez-Ferriols A, Hellemans P, Elsayed Y, Phelps C, Forslund A, Kamida M, Zinzani PL. Phase II multicentre trial of oral quisinostat, a histone deacetylase inhibitor, in patients with previously treated stage IB-IVA mycosis fungoides/Sezary syndrome. *British Journal of Dermatology*. 2016;175:80-8. IF: 4.317. Article.
- Riesco-Martínez MC, Parrilla-Rubio L, Enguita-Valls AB, Delgado-Márquez AM, Ruste SA, López-Martín JA. A unique case of distant skin metastasis from chondroid chordoma. *JAAD Case Reports*. 2016;2:63-6. IF: N/A. Article.
- Delgado-Marquez AM, Gargallo-Moneva V, Rodriguez-Peralto JL, Lopez-Gomez S. Angiomatosis dérmica difusa de la mama: aportación de un nuevo caso en paciente no fumadora. *Dermatology Online Journal*. 2016;22(4). pii: 13030/qt2n29r1sf. IF: N/A. Article.
- Maroñas-Jiménez L, Burillo-Martínez S, Tous-Romero F, Rodríguez-Peralto JL, Ortiz de Frutos J, Ortiz-Romero PL. Micosis fungoide e inhibidores del TNFα: ¿riesgo o beneficio? *Dermatology Online Journal*. 2016;22(5). pii: 13030/qt5h25d0xs. IF: N/A. Article.
- Tous Romero F, Burillo Martinez S, Raya-Morales C, Gargallo-Moneva V, Maroñas-Jiménez L. Segmental lesions along blaschko's lines in an elderly man. *Dermatology Online Journal*. 2016;22(6). pii: 13030/qt436496ns. IF: N/A. Article.
- Pigem R, Maronas-Jimenez L, Pau-Charles I, Mascaro Jr. JM. Multiple inflammatory lesions in an oncology patient. *International Journal of Dermatology*. 2016;55:1301-3. IF: 1.415. Editorial Material.
- Ortiz-Romero PL. Targeting KIR(3)DL2 in primary cutaneous anaplastic large cell lymphomas. *British Journal of Dermatology*. 2016;175:246-7. IF: 4.317. Editorial Material.
- Maroñas-Jiménez L, Lobato-Berezo A, Pigem R, Menis D, Palencia-Pérez S. Whiplash-shaped acute rash. *Cleveland Clinic Journal of Medicine*. 2016;83:417-8. IF: 1.792. Editorial Material.
- Maroñas-Jimenez L, Celano N, Barrio V. Zosteriform hypopigmented rash in a 13-year-old girl. *Paediatrics & Child Health*. 2016;21(1):9-10. IF: 1.509. Editorial Material.
- Maroñas-Jiménez L, Morales-Raya C, Burillo-Martínez S, Velasco-Tamariz V, Rodríguez-Peralto JL, Vanaclocha-Sebastián F. Aphthous vulvar ulcers: a paradoxical adverse effect at distance of topical imiquimod? *European Journal of Obstetrics & Gynecology and Reproductive Biology*. 2016;198:156-7. IF: 1.662. Letter.
- Gutiérrez García-Rodrigo C, Rivera Díaz R, Vanaclocha Sebastián F, Rodríguez Peralto JL. Can Psoriasis Produce Irreversible Alopecia? *Actas Dermo-Sifiliograficas*. 2016; 107:527-30. IF: N/A. Letter.
- Garrido MC, Monsalvez V, Rodriguez-Peralto JL. Cornoid Lamellation Associated With Lichen Sclerosus. *American Journal of Dermatopathology*. 2016;38:638-9. IF: 1.396. Letter.
- Burillo-Martinez S, Maronas-Jimenez L, Palencia-Perez SI, Vanaclocha-Sebastian F, Lopez-Gomez S. Failure of photodynamic therapy (PDT) in 3 patients with folliculitis decalvans. *Journal of the American Academy of Dermatology*. 2016;74:69-70. IF: 5.621. Letter.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Burillo Martinez S, Gargallo V, Tous Romero F, Angulo Martinez L, Rodriguez Peralto JL, Llamas Martin R. Generalized morphea with development of bullous lesions at the site of surgical scars. *Journal der Deutschen Dermatologischen Gesellschaft.* 2016;14:827-9. IF: 2.511. Letter.
- Gargallo V, Tous Romero F, Rodriguez-Peralto JL, Zarco C. Heparin induced bullous hemorrhagic dermatosis at a site distant from the injection. A report of five cases. *Anais Brasileiros de Dermatologia.* 2016;91:857-9. IF: 0.880. Letter.
- Sanz-Motilva V, Castellanos-González M, Martínez Sánchez P, Ortiz de Frutos J, Ortiz-Romero PL, Rodríguez-Peralto JL, Vanaclocha-Sebastián F. Lesiones eccematosas y cuadro ictiosiforme adquirido como forma de presentación de un linfoma anaplásico de células grandes CD30. *Semergen.* 2016; 42:208-10. IF: N/A. Letter.
- Burillo-Martinez S, Maroñas-Jimenez L, Morales-Raya C, Gutiérrez García-Rodrigo C, Postigo-Llorente C, Rodríguez-Peralto JL. Necrobiosis lipoidica der Peniseichel: ein Fallbericht mit Literaturüberblick. *Journal der Deutschen*

#### PATENTS

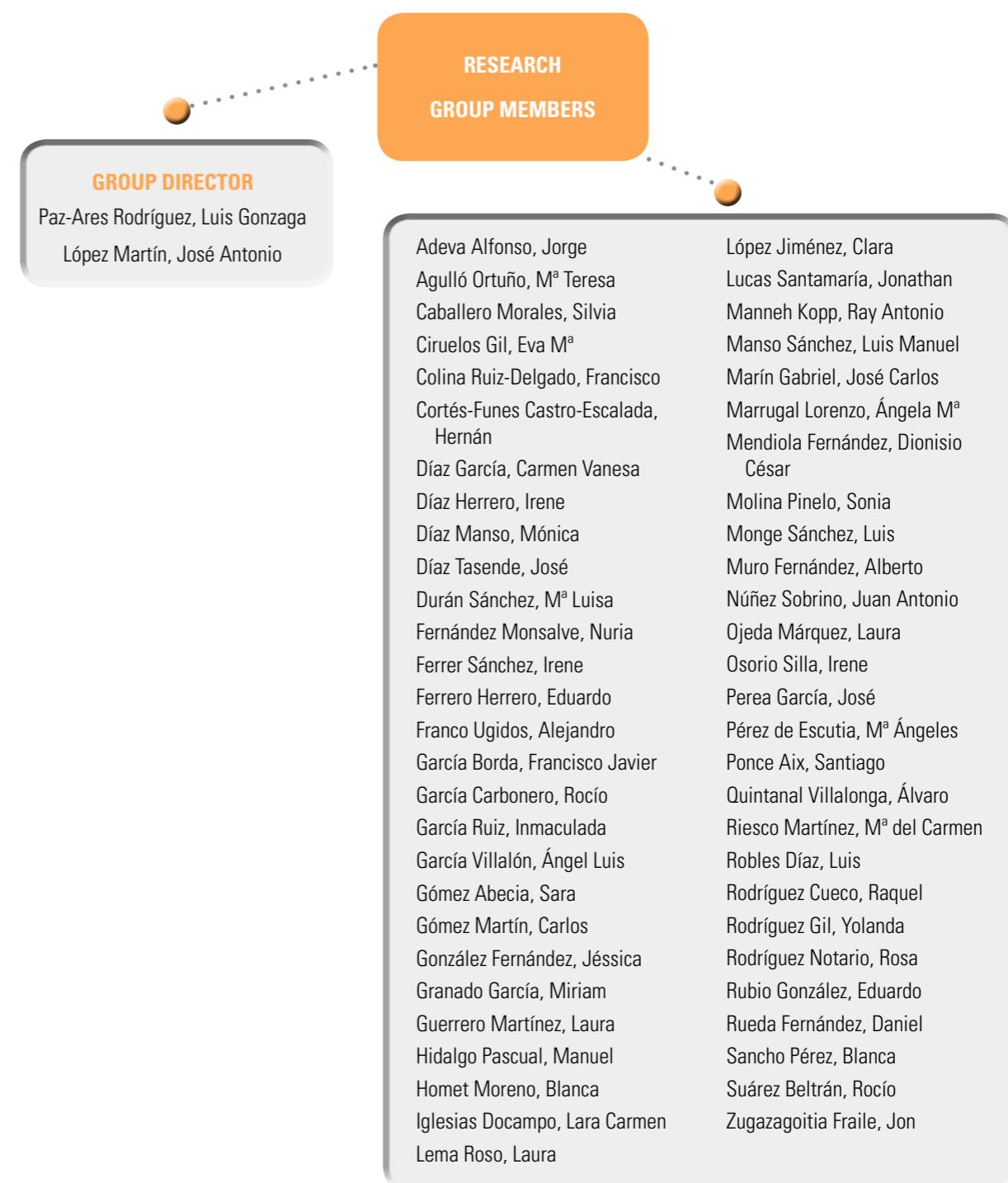
- Title:** Métodos de selección de terapia de linfoma cutáneo de Células T.
- Inventors:** Miguel Ángel Piris Pinilla, José Pedro Vaqué Díez, Nerea Martínez Magunacelaya, Pablo Luis Ortiz Romero, Margarita Sánchez-Beato Gómez.
- Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (27,90%), Fundación de Investigación Biomédica del Hospital Universitario Puerta de Hierro de Majadahonda (27,90%), Fundación Científica de la Asociación Española contra el Cáncer (44,20%).
- PCT extension application no.:** PCT/ES2013/070795.
- Date of application:** 13/11/2013

Dermatologischen Gesellschaft. 2016;14:1039-40. IF: 2.511. Letter.

- Burillo-Martinez S, Maroñas-Jimenez L, Morales-Raya C, Gutiérrez García-Rodrigo C, Postigo-Llorente C, Rodríguez-Peralto JL. Necrobiosis lipoidica of the glans penis: a case report and literature review. *Journal der Deutschen Dermatologischen Gesellschaft.* 2016;14:1040-1. IF: 2.511. Letter.
- Castano-Leon AM, Hernandez-Lain A, Maronas L, Lopez P, Llorente Ayuso L, Ramos A, Perez-Regadera J, Jimenez Roldan L. Pathology-confirmed cerebral arterial invasion and recurrent multiple brain metastasis from cardiac myxoma without evidence of disease after surgery and radiotherapy. *Clinical Neuropathology.* 2016;35:84-8. IF: 1.267. Letter.
- Sanz-Bueno J, Lora D, Monsálvez V, Maroñas-Jiménez L, Postigo C, Rodríguez-Peralto JL, Ortiz-Romero PL. The new Cutaneous Lymphoma International Prognostic index (CLIPi) for early mycosis fungoides failed to identify prognostic groups in a cohort of Spanish patients. *British Journal of Dermatology.* 2016;175:794-6. IF: 4.317. Letter.

- Title:** Método de selección de terapia de linfoma cutáneo de células T.
- Inventors:** Miguel Ángel Piris Pinilla, José Pedro Vaqué Díez, Nerea Martínez Magunacelaya, Pablo Luis Ortiz Romero, Margarita Sánchez-Beato Gómez.
- Owners:** Fundación Marqués de Valdecilla (16,75%), Fundación de Investigación Biomédica del Hospital Universitario Puerta de Hierro de Majadahonda (16,75%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,75%), Fundación Científica de la Asociación Española contra el Cáncer (33%), Servicio Cántabro de Salud (16,75%).
- Spanish Patent Application No.:** P201231760.
- Date of application:** 14/11/2012

## CLINICAL-TRANSLATIONAL ONCOLOGY



## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	MINECO	1
Competitive	ISCIII	6
Competitive	Fundación Mutua Madrileña	10
Competitive	AECC	1
Noncompetitive	Various	14
<b>TOTAL</b>		<b>32</b>

- Title: InnImpacto - prostatepredict. Desarrollo de una prueba de pronóstico para predecir la probabilidad de enfermedad agresiva después de la cirugía.  
Principal Investigator: José Antonio López Martín  
Project No.: 2013/0060  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 30/04/2016
- Title: Análisis de expresión génica, de miRNA y proteica en muestras de pacientes con cáncer de mama avanzado con perfil mutacional conocido.  
Principal Investigator: Eva Mª Ciruelos Gil  
Project No.: PI15/01508  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Papel de la vía de IL-11 en la tumorigénesis y su posible utilidad como diana terapéutica en el adenocarcinoma de pulmón.  
Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez  
Project No.: PI14/01964  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 23/10/2015  
End date: 31/12/2017
- Title: Susceptibilidad genética del cáncer colorrectal en el adulto joven: identificación de regiones cromosómicas de interés y búsqueda de genes de alta y baja penetrancia.  
Principal Investigator: José Perea García  
Project No.: PI13/01273  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2017
- Title: Identificación de biomarcadores predictivos de respuesta farmacológica en cáncer colorrectal avanzado: validación preclínica y clínica.  
Principal Investigator: Rocío García Carbonero  
Project No.: PI13/02295  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 08/07/2015  
End date: 31/12/2016
- Title: Análisis del valor pronóstico de un perfil de mi-RNAs en carcinoma de mama sin afectación ganglionar al diagnóstico.  
Principal Investigator: Eva Mª Ciruelos Gil  
Project No.: PI12/01016  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 31/12/2016
- Title: Validación de tecnologías de predicción de respuesta al tratamiento con quimioterapia en carcinoma colorrectal avanzado.  
Principal Investigator: Rocío García Carbonero  
Project No.: DTS15/00157

Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 30/12/2017

- Title: Estudio de la comunicación intercelular mediada por microRNAs en cáncer de pulmón.  
Principal Investigator: Sonia Molina Pinelo  
Project No.: FIMM 2014/0096  
Funding Body: Fundación Mutua Madrileña  
Start date: 16/05/2016  
End date: 15/05/2018

- Title: Implementación clínica de la caracterización genómica múltiple en la valoración inicial de pacientes con cáncer no microcítico de pulmón y carcinoma colo-rectal avanzado mediante técnicas de ultra-secuenciación masiva (NGS).  
Principal Investigator: Jon Zugazagoitia Fraile  
Project No.: FIMM 2014/0096  
Funding Body: Fundación Mutua Madrileña  
Start date: 21/10/2014  
End date: 20/10/2016, extended to 30/09/2017

- Title: Estudio en un modelo murino de la reversión a la resistencia farmacológica de tumores de melanoma.  
Principal Investigator: José Antonio López Martín  
Project No.: FMM 2013/0069  
Funding Body: Fundación Mutua Madrileña  
Start date: 28/09/2013  
End date: 27/09/2016, extended to 24/09/2017

- Title: Estudio multidisciplinar clínico-patológico de la enfermedad quirúrgica tiroidea, estratificación-reestratificación evolutiva y estrategia de abordaje terapéutico en el cáncer diferenciado de tiroides.  
Principal Investigator: Eduardo Ferrero Herrero  
Project No.: FMM 2013/0070  
Funding Body: Fundación Mutua Madrileña  
Start date: 20/07/2013  
End date: 19/07/2015, extended to 31/07/2017

- Title: Análisis del efecto anti-tumoral de la combinación de cannabinoides y terapia anti-HER2 en mujeres con cáncer de mama HER-2 positivo.  
Principal Investigator: Luis Manuel Manso Sánchez  
Project No.: FMM 2013/0072  
Funding Body: Fundación Mutua Madrileña  
Start date: 05/12/2012  
End date: 04/12/2014, extended to 30/03/2017

- Title: Descubrimiento y selección de biomarcadores de la Caquexia asociada al cáncer, en el proteoma plasmático humano.  
Principal Investigator: José Antonio López Martín
- Title: Diagnóstico diferencial de los nódulos hepatocelulares mediante técnicas inmunohistoquímicas, moleculares y ultraestructura. Aplicación al diagnóstico y caracterización del carcinoma hepatocelular.  
Principal Investigator: Yolanda Rodríguez Gil  
Project No.: FMM 2013/0076  
Funding Body: Fundación Mutua Madrileña  
Start date: 27/07/2013  
End date: 26/07/2015, extended to 30/10/2016
- Title: Estudio epidemiológico exploratorio sobre el interés clínico potencial del uso de Oncocarta® en pacientes con tumores malignos.  
Principal Investigator: Laura Lema Roso  
Project No.: FMM 2012/0104  
Funding Body: Fundación Mutua Madrileña  
Start date: 28/12/2012  
End date: 28/12/2014, extended to 30/06/2016
- Title: Papel del fenotipo metilador en grupos definidos de cáncer colorrectal. Estudio comparativo e implicaciones clínicas.  
Principal Investigator: José Perea García  
Project No.: FMM 2012/0090  
Funding Body: Fundación Mutua Madrileña  
Start date: 05/12/2012  
End date: 04/12/2014, extended to 30/03/2017

Project No.: FMM 2010/0018  
 Funding Body: Fundación Mutua Madrileña  
 Start date: 28/10/2010  
 End date: 27/10/2013, extended to 30/06/2016

- Title: Papel de la vía de IL-11 en la tumorigénesis y su posible utilidad como diana terapéutica en el adenocarcinoma de pulmón.

Principal Investigator: Irene Ferrer Sánchez  
 Funding Body: Fundacion Científica de la Asociacion Española Contra el Cáncer (AECC).  
 Start date: 01/12/2015  
 End date: 30/11/2020

- Title: Subestudio de biomarcadores asociados al ensayo clínico "Phase II/III randomized, double-blind study of Sandostain Lar in combination with Axitinib versus placebo in patients with progressive advanced G1-G2 neuroendocrine tumors of non-pancreatic origin".

Principal Investigator: Rocío García Carbonero  
 Funding Body: Grupo Español de Tumores  
 Start date: 17/10/2016  
 End date: 16/10/2021

- Title: Proyecto desde una aproximación multidisciplinar a la atención integral al paciente oncológico.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez  
 Funding Body: Boehringer Ingelheim España, S.A.  
 Start date: 08/03/2016  
 End date: 07/03/2017

- Title: Colaboración para determinar translocaciones del gen ALK-MLA4 y ROS1 en cáncer de pulmón.

Principal Investigator: Santiago Ponce Aix  
 Funding Body: Pfizer, S.L.U.  
 Start date: 26/10/2016  
 End date: 25/10/2017

- Title: Investigación clínica y traslacional en melanoma y otros tumores refractarios.

Principal Investigator: José Antonio López Martín  
 Funding Body: Fundación Ricardo Carpio  
 Start date: 01/06/2014  
 End date: 31/05/2017

- Title: Estudio para determinar la prevalencia de translocaciones del gen ALK-ML4 en cáncer de pulmón.

Principal Investigator: Santiago Ponce Aix  
 Funding Body: Pfizer, S.L.U.  
 Start date: 16/10/2014  
 End date: 15/10/2017

- Title: Implementación de la base de datos del laboratorio de oncología molecular del Hospital 12 de Octubre.

Principal Investigator: Santiago Ponce Aix  
 Funding Body: Astra-Zeneca Farmaceutica Spain, S.A.  
 Start date: 27/07/2013  
 End date: 26/07/2016

- Title: Programa de investigación en oncología adscrito al programa de investigación clínica y traslacional en cáncer de mama HER2+.

Principal Investigator: Eva Mª Ciruelos Gil  
 Funding Body: Roche Farma, S.A.  
 Start date: 22/01/2014  
 End date: 21/01/2017

- Title: Determinación del estado mutacional de genes KRAS y NRAS en pacientes con diagnóstico de cáncer colorrectal metastásico.

Principal Investigator: Carlos Gómez Martín  
 Funding Body: Merck, S.L.U.  
 Start date: 11/04/2014  
 End date: 10/04/2017

- Title: Proyecto para determinar translocaciones del gen ALK-ML4 y ROS1 en cáncer de pulmón.

Principal Investigator: Santiago Ponce Aix  
 Funding Body: Pfizer, S.L.U.  
 Start date: 27/10/2015  
 End date: 26/10/2017

- Title: Señalización ligada a interleuquina 11 (IL-11): papel en la tumorigénesis y utilidad como diana terapéutica en el adenocarcinoma de pulmón.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez  
 Funding Body: Roche Farma, S.A.  
 Start date: 01/12/2015  
 End date: 30/11/2016

- Title: Estudio observacional y prospectivo para el desarrollo de herramientas predictivas y pronósticas para la optimización de la terapia de primera línea con Bevacizumab en pacientes con cáncer de mama metastásico HER-2 negativo y criterios de enfermedad agresiva.

Principal Investigator: Luis Manuel Manso Sánchez  
 Funding Body: Roche Farma, S.A.  
 Start date: 18/11/2015  
 End date: 17/11/2018

- Title: Programa en investigación en oncología traslacional. Formación en tumores torácicos.

Principal Investigator: Santiago Ponce Aix  
 Funding Body: Lilly, S.A.  
 Start date: 29/11/2013  
 End date: 28/11/2016

- Title: Determinación de translocaciones de ALK en muestras de tumor.

Principal Investigator: Santiago Ponce Aix  
 Funding Body: Pfizer, S.L.U.  
 Start date: 19/11/2014  
 End date: 18/11/2017

- Title: Susceptibilidad genética del cáncer colorrectal en el adulto joven: identificación de regiones cromosómicas de interés y búsqueda de genes de alta y baja penetrancia.

Principal Investigator: José Perea García  
 Funding Body: Fundación Mari Paz Jiménez Casado  
 Start date: 18/05/2015  
 End date: 17/05/2016

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	47	350.326
Reviews	11	51.077
Editorials	4	34.533
<b>Total</b>	<b>62</b>	<b>435.936</b>

- Paz-Ares L, Socinski MA, Shahidi J, Hozak RR, Soldatenkova V, Thatcher N, Hirsch F. 1320\_PR: Subgroup analyses of patients with epidermal growth factor receptor (EGFR)-expressing tumors in SQUIRE: A randomized, multicenter, open-label, phase III study of gemcitabine-cisplatin (GC) plus necitumumab (N) versus GC alone in the first-line treatment of patients (pts) with stage IV squamous non-small cell lung cancer (sq-NSCLC). Journal of Thoracic Oncology. 2016;11(4 Suppl):S153. IF: 5.040. Article.

- Park K, Tan EH, Zhang L, Hirsh V, O'Byrne K, Boyer M, Yang J, Mok T, Kim M, Paz-Ares L. 140PD: LUX-Lung 7: A Phase IIb, global, randomised, open-label trial of afatinib vs gefitinib as first-line treatment for patients (pts) with advanced non-small cell lung cancer (NSCLC) harbouring activating EGFR mutations. Journal of Thoracic Oncology. 2016;11(4 Suppl):S117-8. IF: 5.040. Article.

- Marrugal A, Márquez LO, Quintanal Á, Molina-Pinelo S, Ferrer I, Carnero A, Paz-Ares L. 19P Comparative effectiveness analysis of HSP90 inhibitors in non-small

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- cell lung cancer. *Journal of Thoracic Oncology*. 2016;11(4 Suppl):S63-4. IF: 5.040. Article.
- Quintanal Á, Poveda R, Meléndez R, Ojeda-Márquez L, Marrugal Á, Velasco MG, Ferrer I, Carnero A, Paz-Ares L, Molina-Pinelo S. 20P Context-dependent role of FGFR4 in lung tumorigenesis. *Journal of Thoracic Oncology*. 2016 Apr;11(4 Suppl):S64. IF: 5.040. Article.
  - Torralba-Morón A, Urbanowicz M, Ibarrola-De Andres C, Lopez-Alonso G, Colina-Ruizdelgado F, Guerra-Vales JM. Acute Small Bowel Obstruction and Small Bowel Perforation as a Clinical Debut of Intestinal Endometriosis: A Report of Four Cases and Review of the Literature. *Internal Medicine*. 2016;55:2595-9. IF: 0.832. Article.
  - Ribi K, Luo W, Bernhard J, Francis PA, Burstein HJ, Ciruelos E, Bellet M, Pavesi L, Lluch A, Visini M, Parmar V, Tondini C, Kerbrat P, Perelló A, Neven P, Torres R, Lombardi D, Puglisi F, Karlsson P, Ruhstaller T, Colleoni M, Coates AS, Goldhirsch A, Price KN, Gelber RD, Regan MM, Fleming GF. Adjuvant Tamoxifen Plus Ovarian Function Suppression Versus Tamoxifen Alone in Premenopausal Women With Early Breast Cancer: Patient-Reported Outcomes in the Suppression of Ovarian Function Trial. *Journal of Clinical Oncology*. 2016;34:1601-10. IF: 20.982. Article.
  - Park K, Tan EH, O'Byrne K, Zhang L, Boyer M, Mok T, Hirsh V, Yang JC, Lee KH, Lu S, Shi Y, Kim SW, Laskin J, Kim DW, Arvis CD, Kölbeck K, Laurie SA, Tsai CM, Shahidi M, Kim M, Massey D, Zazulina V, Paz-Ares L. Afatinib versus gefitinib as first-line treatment of patients with EGFR mutation-positive non-small-cell lung cancer (LUX-Lung 7): a phase 2B, open-label, randomised controlled trial. *Lancet Oncology*. 2016;17:577-89. IF: 26.509. Article.
  - Cedres S, Ponce-Aix S, Pardo-Aranda N, Navarro-Mendivil A, Martinez-Martí A, Zugazagoitia J, Sansano I, Montoro MA, Enguita A, Felip E. Analysis of expression of PTEN/PI3 K pathway and programmed cell death ligand 1 (PD-L1) in malignant pleural mesothelioma (MPM). *Lung Cancer*. 2016;96:1-6. IF: 3.767. Article.
  - Manso L, Mourón S, Tress M, Gómez-López G, Morente M, Ciruelos E, Rubio-Camarillo M, Rodriguez-Peralto JL, Pujana MA, Pisano DG, Quintela-Fandino M. Analysis of Paired Primary-Metastatic Hormone-Receptor Positive Breast Tumors (HRPBC) Uncovers Potential Novel Drivers of Hormonal Resistance. *PLoS One*. 2016;11(5):e0155840. IF: 3.057. Article.
  - Usó M, Jantus-Lewintre E, Bremnes RM, Calabuig S, Blasco A, Pastor E, Borreda I, Molina-Pinelo S, Paz-Ares L, Guijarro R, Martorell M, Forteza J, Camps C, Sirera R. Analysis of the immune microenvironment in resected non-small cell lung cancer: the prognostic value of different T lymphocyte markers. *Oncotarget*. 2016;7:52849-61. IF: 5.008. Article.
  - Rodríguez Garzotto A, Díaz-García CV, Agudo-López A, Prieto García E, Ponce S, López-Martín JA, Paz-Ares L, Iglesias L, Agulló-Ortuño MT. Blood-based biomarkers for monitoring antiangiogenic therapy in non-small cell lung cancer. *Medical Oncology*. 2016;33:105. IF: 2.486. Article.
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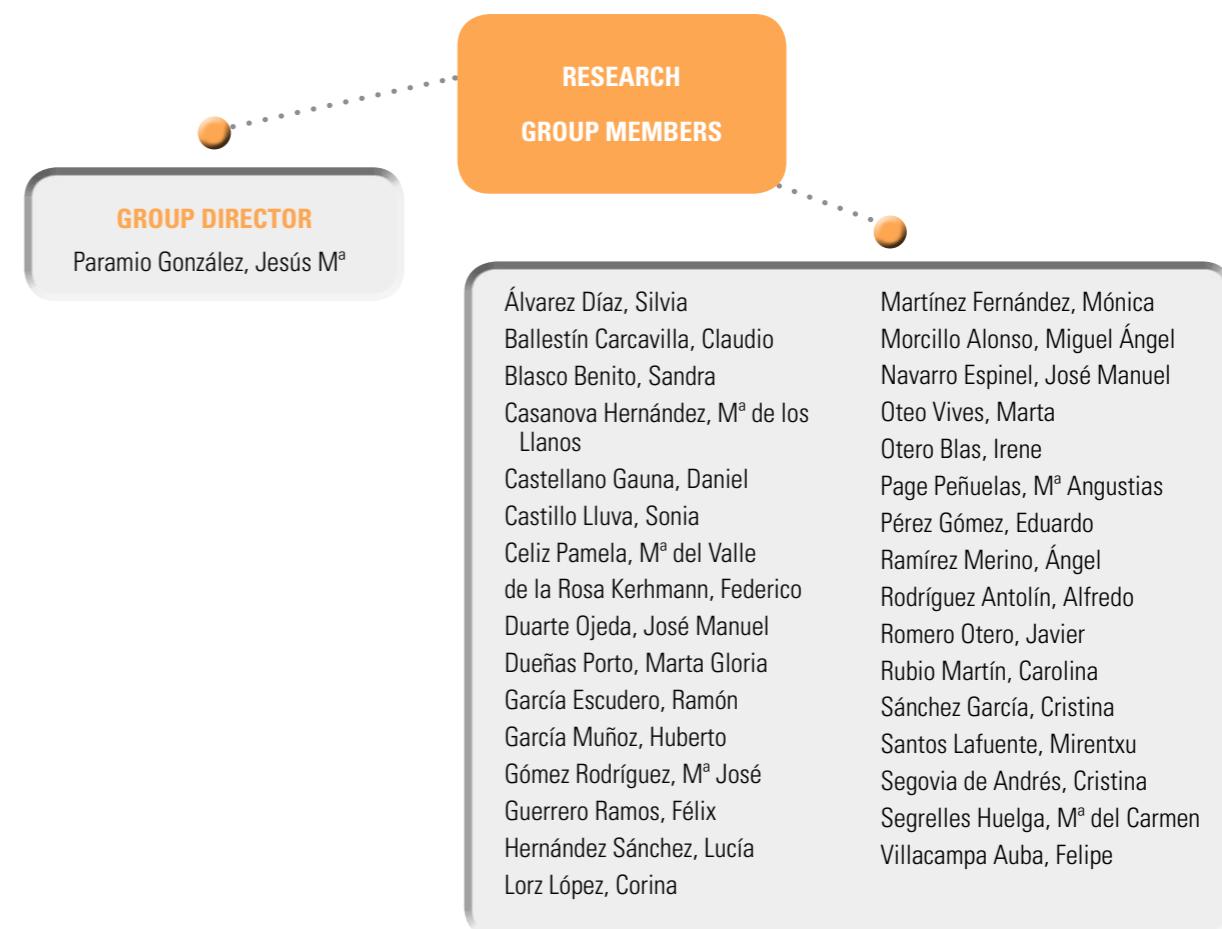
## THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** M<sup>a</sup> del Carmen Riesco Martínez  
**Title:** Optimización de la secuencia de tratamiento en cáncer colorrectal avanzado: meta-análisis y análisis coste-efectividad de la secuencia de empleo de terapias antidiaria en cáncer colorrectal avanzado no resecable, RAS nativo.  
**Director/s:** Rocío García Carbonero  
**Date Defended:** 09/02/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Purificación Esteve García  
**Title:** Perfiles de expresión génica predictivos de respuesta a quimioterapia en pacientes con carcinoma colorrectal metastásico.  
**Director/s:** Rocío García Carbonero  
**Date Defended:** 10/06/2016  
**University:** Universidad de Sevilla

## PATENTS

- Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.  
**Number:** PCT/ES2016/070929.  
**Type:** PCT.  
**Inventors:** José Perea García, Daniel Rueda Fernández, María Arriba Domenech, Miguel Urioste Azcorra, Juan Luis García Hernández, Jéssica Pérez García, Rogelio González Sarmiento.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%), Universidad de Salamanca (25%).  
**Date of application:** 22/12/2016
- Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.  
**Número:** P201531891.  
**Type:** Spanish.  
**Inventors:** José Perea García, Rogelio González Sarmiento, Daniel Rueda Fernández, Miguel Urioste Azcorra, María Arriba Domenech, Juan Luis García Hernández, Jéssica Pérez García.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Universidad de Salamanca (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%).  
**Date of application:** 23/12/2015

## CELLULAR AND MOLECULAR ONCOLOGY



## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	7
<b>TOTAL</b>		<b>9</b>

- Title: El sistema endocannabinoide en cáncer de mama HER2+: papel en la generación y progresión tumorales, y potencial como diana terapéutica y marcador pronóstico.  
Principal Investigator: Cristina Sánchez García  
Project No.: PI14/01101  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Análisis microRNA del cáncer papilar renal. Implicaciones diagnósticas y terapéuticas.  
Principal Investigator: Felipe Villacampa Auba  
Project No.: FMM-2013/0077  
Funding Body: Fundación Mutua Madrileña  
Start date: 31/08/2013  
End date: 31/10/2015, extended to 30/09/2016
- Title: La carga de cáncer de próstata avanzado en España. Un estudio retrospectivo.  
Principal Investigator: Alfredo Rodríguez Antolín  
Funding Body: Ecostat Consulting UK LTD  
Start date: 01/09/2016  
End date: 31/08/2019
- Title: Evaluación de Palbociclib en líneas celulares de carcinoma urotelial.  
Principal Investigator: Daniel Castellano Gauna  
Funding Body: Pfizer, S.L.U.  
Start date: 22/06/2015  
End date: 21/06/2016
- Title: Validación por PCR cuantitativa de biomarcadores y MicroRNAs en muestras de pacientes de carcinoma de células renales.  
Principal Investigator: Jesús Mª Paramio González, Daniel Castellano Gauna

Funding Body: Pfizer, S.L.U.  
Start date: 01/01/2015  
End date: 31/12/2016

- Title: Hormonoterapia en cáncer de mama y próstata, situación actual y perspectivas futuras.  
Principal Investigator: Daniel Castellano Gauna  
Funding Body: AstraZeneca AB  
Start date: 07/07/2014  
End date: 06/07/2017
- Title: Unidad Multidisciplinar de Urooncología.  
Principal Investigator: Daniel Castellano Gauna  
Funding Body: Pierre Fabre Ibérica, S.A.  
Start date: 30/12/2013  
End date: 29/12/2016, extended to 31/12/2017
- Title: Estratificación para el pronóstico y la orientación terapéutica de los tumores prostáticos en el contexto de la enfermedad resistente a castración.  
Principal Investigator: Daniel Castellano Gauna  
Funding Body: Astellas Pharma, S.A.  
Start date: 16/10/2015  
End date: 15/10/2017
- Title: Estudio prospectivo, randomizado y controlado para la evaluación de las alteraciones: metabólicas, osteo-musculares, sexuales, psico-cognitivas y de calidad de vida, secundarias al bloqueo hormonal con análogos de LH-RH en pacientes con cáncer de próstata; y el impacto de medidas correctoras de estilo de vida y dieta como prevención.  
Principal Investigator: Alfredo Rodríguez Antolín  
Funding Body: Abbvie Spain, S.L.U.  
Start date: 08/10/2014  
End date: 07/10/2017

## ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Understanding Bladder Cancer Through Genetically Engineered Mouse Models Of Preclinical Application.  
Principal Investigator: Jesús Mª Paramio González  
Project No.: SAF2015-66015-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2016  
End date: 31/12/2019
- Title: Nuevos modelos de cáncer de pulmón de uso preclínico: tumores neuroendocrinos de alto grado y carcinoma epidermoide.  
Principal Investigator: Miren Txu Santos Lafuente  
Project No.: PI15/00993  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: La vía de Ras como posible diana terapéutica en el cáncer de mama.  
Principal Investigator: Ángel Ramírez Merino  
Project No.: PI14/01403  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Efecto antitumoral de los cannabinoides en cáncer de mama y otros cánceres (Antitumoural effect of cannabinoids in breast and other cancer).  
Principal Investigator: Cristina Sánchez García  
Funding Body: GW Pharmaceuticals  
Start date: 01/10/2009  
End date: 31/03/2016

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	22	168.931
Reviews	1	1.878
Editorials	1	4.124
<b>Total</b>	<b>24</b>	<b>174.933</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

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P, Meana Garcia JA, Garcia Marrero RD, Gajate Borau P, Santander Lobera C, Molins Palau C, Lopez Brea M, Fernandez Parra EM, Reig Torras O, Basterretxea Badiola L, Vazquez Estevez S, Gonzalez Larriba JL. Validation of the International Metastatic Renal-Cell Carcinoma Database Consortium (IMDC) prognostic model for first-line pazopanib in metastatic renal carcinoma: the Spanish Oncologic Genitourinary Group (SOGUG) SPAZO study. *Annals of Oncology*. 2016;27:706-11. IF: 9.269. Article.

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#### PATENTS

- **Title:** Método pronóstico para identificar riesgo de recidiva en pacientes de cáncer de riñón tipo carcinoma renal de células claras estadios I y II y kit.

**Number:** PCT/EP2016/072723.

**Type:** PCT.

**Inventors:** Natalia Miranda Utrera, Felipe Villacampa Aubá, Daniel Castellano Gauna, Juan Ángel Fresno Vara, Ángelo Gámez Pozo.

**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (70%), Fundación para la Investigación Biomédica del Hospital Universitario La Paz (30%).

**Date of application:** 23/09/2016

- **Title:** Método pronóstico para identificar riesgo de recidiva en pacientes de cáncer de riñón tipo carcinoma renal de células claras estadios I y II y KIT.

**Number:** P201531360

**Type:** Spanish.

**Inventors:** Natalia Miranda Utrera, Felipe Villacampa Aubá, Juan Ángel Fresno Vara, Ángelo Gámez Pozo, Daniel Castellano Gauna

**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (70%), Fundación para la Investigación Biomédica del Hospital Universitario La Paz (30%).

**Date of application:** 23/09/2015

## CHRONIC DISEASES AND SYSTEMIC PATHOLOGIES



**COORDINATOR: MANUEL PRAGA TERENTE**

**Cardiovascular Diseases**

**Aging, Neuroimmunology, and Nutrition**

**Respiratory Diseases**

**Arterial Hypertension and Cardiovascular Risk**

**Research on Intelligent Biomaterials**

**Bone Metabolism, Diabetes, and Nutrition**

**Perinatal Medicine**

**Clinical Nephrology**

**Pulmonary Surfactant and Respiratory Diseases**

# CARDIOVASCULAR DISEASES

## RESEARCH GROUP MEMBERS

### GROUP DIRECTOR

Delgado Jiménez, Juan Francisco

Arribas Ynsaurriaga, Fernando Bueno Zamora, Héctor José Escribano Subías, Mª del Pilar Flox Camacho, Ángela Fontenla Cerezuela, Adolfo Jiménez López-Guarch, Mª del Carmen	Martín Asenjo, Roberto Ruiz Cano, Mº José Salguero Bodes, Rafael Sánchez Sánchez, Violeta Solís Martín, Jorge Tello de Meneses Becerra, Rocío
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### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Noncompetitive	Various	5
<b>TOTAL</b>		<b>7</b>

- Title: Antiagregación en IAM con elevación ST revascularizado con stent. Subproyecto 4: efectividad de la estratificación del riesgo hemorrágico y trombótico.  
Principal Investigator: Rafael Salguero Bodes  
Project No.: PI13/02502  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016

- Title: Bases genético-moleculares de la hipertensión arterial pulmonar y su expresión fenotípica en la población española.  
Principal Investigator: Pilar Escribano Subías  
Project No.: PI15/02012  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

- Title: Efectos del entrenamiento combinado (aeróbico, de fuerza y de musculatura inspiratoria) sobre la capacidad aeróbica y calidad de vida en pacientes con hipertensión pulmonar.  
Principal Investigator: Pilar Escribano Subías, Paz Sanz Ayán  
Funding Body: GlaxoSmithKline, S.A.  
Start date: 20/04/2015  
End date: 20/04/2018
- Title: Farmacogenómica en la hipertensión arterial pulmonar: estudio de la correlación genotípica-fenotípica.  
Principal Investigador: Pilar Escribano Subías  
Investigador Colaborador: Carmen Jiménez López-Guarch  
Funding Body: Ferrer Internacional, S.A.  
Start date: 20/12/2013  
End date: 19/12/2016
- Title: Epigenética - genética de genes candidatos a un grupo de hipertensión pulmonar ideopática.  
Principal Investigator: Pilar Escribano Subías

- Funding Body: Ferrer Farma, S.A.  
Start date: 01/12/2012  
End date: 31/01/2016
- Title: Incidencia y prevención del deterioro funcional y el síndrome confusional agudo en pacientes ancianos ingresados en una unidad de cuidados agudos cardiovasculares.  
Principal Investigator: Roberto Martín Asenjo  
Funding Body: Fundación Casa del Corazón  
Start date: 13/06/2016  
End date: 31/12/2016
- Title: PICAT 1 - Investigación de la estructura y función del sistema cardiovascular en la salud y enfermedad y los mecanismos implicados - CARDIOBANK-.  
Principal Investigator: Héctor José Bueno Zamora  
Funding Body: Fundación Investigación Biomédica Gregorio Marañón  
Start date: 25/02/2016  
End date: 24/02/2019

### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	25	157.352
Reviews	2	19.702
Editorials	10	50.604
<b>Total</b>	<b>37</b>	<b>227.658</b>

- Ponikowski P, Voors AA, Anker SD, Bueno H, Cleland JG, Coats AJ, Falk V, González-Juanatey JR, Harjola VP, Jankowska EA, Jessup M, Linde C, Nihoyannopoulos P, Parissis JT, Pieske B, Riley JP, Rosano GM, Ruilope LM, Ruschitzka F, Rutten FH, van der Meer P; Authors/Task Force Members, Document Reviewers. 2016 ESC Guidelines for the diagnosis and treatment of acute and

chronic heart failure: The Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC). Developed with the special contribution of the Heart Failure Association (HFA) of the ESC. European Journal of Heart Failure. 2016; 18:891-975. IF: 5.135. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

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- Miró Ò, Escoda R, Martín-Sánchez FJ, Herrero P, Jacob J, Rizzi M, Aguirre A, Andueza JA, Bueno H, Llorens P; en representación del Grupo ICA-SEMES. Assessment of the knowledge and perception of support of patients with heart failure SOPICA study IN SPAIN. *Revista Clinica Espanola*. 2016;216:237-47. IF: 0.760. Article.
  - Peñalvo JL, Fernández-Friera L, López-Melgar B, Uzhova I, Oliva B, Fernández-Alvira JM, Laclaustra M, Pocock S, Mocoroa A, Mendiguren JM, Sanz G, Guallar E, Bansilal S, Vedanthan R, Jiménez-Borreguero LJ, Ibañez B, Ordovás JM, Fernández-Ortiz A, Bueno H, Fuster V. Association Between a Social-Business Eating Pattern and Early Asymptomatic Atherosclerosis. *Journal of the American College of Cardiology*. 2016;68:805-14. IF: 17.759. Article.
  - Hall M, Dondo TB, Yan AT, Goodman SG, Bueno H, Chew DP, Brieger D, Timmis A, Batin PD, Deanfield JE, Hemingway H, Fox KA, Gale CP. Association of Clinical Factors and Therapeutic Strategies With Improvements in Survival Following Non-ST-Elevation Myocardial Infarction, 2003-2013. *JAMA*. 2016;316:1073-82. IF: 37.684. Article.
  - Fontenla A, Salguero R, Martínez-Ferrer JB, Rodríguez A, Alzueta J, García E, Basterra N, Romero R, Concha JF, Viñolas X, Villacastín J, Lopez-Gil M, Arribas F. Atrial Rate-Responsive Pacing and Incidence of Sustained Atrial Arrhythmias in Patients with Implantable Cardioverter Defibrillators. *PACE-Pacing and Clinical Electrophysiology*. 2016;39:548-56. IF: 1.440. Article.
  - Miró Ò, Müller C, Martín-Sánchez FJ, Bueno H, Mebazaa A, Herrero P, Jacob J, Gil V, Escoda R, Llorens P; ICA-SEMES Research Group. BETAWIN-AHF study: effect of beta-blocker withdrawal during acute decompensation in patients with chronic heart failure. *Clinical Research in Cardiology*. 2016;105:1021-9. IF: 4.324. Article.
  - Delgado JF, Alonso-Pulpón L, Mirabet S, Almenar L, Pérez Villa F, González-Vilchez F, Palomo J, Blasco T, García-Cosío MD, González-Costello J, de la Fuente L, Rábago G, Lage E, Pascual D, Díaz Molina B, Arizón JM, Muñiz J, Crespo-Leiro MG. Cancer Incidence in Heart Transplant Recipients With Previous Neoplasia History. *American Journal of Transplantation*. 2016;16:1569-78. IF: 5.669. Article.
  - Manito Lorite N, Manzano Espinosa L, Llorens Soriano P, Masip Utset J, Comín Colet J, Formiga Pérez F, Herrero Puente P, Delgado Jiménez J, Montero-Pérez-Barquiero M, Jacob Rodríguez J, López de Sá Areces E, Pérez Calvo JL, Martín-Sánchez FJ, Miró Andreu Ò. Consensus for improving the comprehensive care of patients with acute heart failure: summarised version. *Revista Clinica Espanola*. 2016;216:260-70. IF: 0.760. Article.
  - Harjola VP, Mebazaa A, Čelutkienė J, Bettex D, Bueno H, Chioncel O, Crespo-Leiro MG, Falk V, Filippatos G, Gibbs S, Leite-Moreira A, Lassus J, Masip J, Mueller C, Mullens W, Naeije R, Nordegraaf AV, Parissis J, Riley JP, Ristic A, Rosano G, Rudiger A, Ruschitzka F, Seferovic P, Sztrymf B, Vieillard-Baron A, Yilmaz MB, Konstantinides S. Contemporary management of acute right ventricular failure: a statement from the Heart Failure Association and the Working Group on Pulmonary Circulation and Right Ventricular Function of the European Society of Cardiology. *European Journal of Heart Failure*. 2016;18:226-41. IF: 5.135. Article.
  - Hall M, Cenko E, Bueno H, Gale CP. Contemporary roles of registries in clinical cardiology: Insights from Western and Eastern European countries. *International Journal of Cardiology*. 2016;217:13-5. IF: 4.638. Article.
  - Kaw R, Hernandez AV, Pasupuleti V, Deshpande A, Nagarajan V, Bueno H, Coleman CI, Ioannidis JP, Bhatt DL, Blackstone EH; Cardiovascular Meta-analyses Research Group. Effect of diastolic dysfunction on postoperative outcomes after cardiovascular surgery: A systematic review and meta-analysis. *Journal of Thoracic and Cardiovascular Surgery*. 2016;152:1142-53. IF: 3.494. Article.
  - Forteza A, Evangelista A, Sánchez V, Teixidó-Turà G, Sanz P, Gutiérrez L, Gracia T, Centeno J, Rodríguez-Palomares J, Rufilanchas JJ, Cortina J, Ferreira-González I, García-Dorado D. Efficacy of losartan vs. atenolol for the prevention of aortic dilation in Marfan syndrome: a randomized clinical trial. *European Heart Journal*. 2016;37:978-85. IF: 15.064. Article.
  - Bertomeu-González V, Moreno-Arribas J, Castillo-Castillo J, Martínez-Ferrer J, Viñolas X, Rodríguez A, Díaz-Infante E, Fernández-Lozano I, Alzueta J, Fontenla A. Etiology and Programming Effects on Shock Efficacy in ICD Recipients. *PACE-Pacing and Clinical Electrophysiology*. 2016;39:73-80. IF: 1.440. Article.
  - Crespo-Leiro MG, Anker SD, Maggioni AP, Coats AJ, Filippatos G, Ruschitzka F, Ferrari R, Piepoli MF, Delgado Jimenez JF, Metra M, Fonseca C, Hradec J, Amir O, Logeart D, Dahlström U, Merkely B, Drozdz J, Goncalvesova E, Hassanein M, Chioncel O, Lainscak M, Seferovic PM, Tousoulis D, Kavoliuniene A, Fruhwald F, Fazlibegovic E, Temizhan A, Gatzov P, Erglis A, Laroche C, Mebazaa A; Heart Failure Association (HFA) of the European Society of Cardiology (ESC). European Society of Cardiology Heart Failure Long-Term Registry (ESC-HF-LT): 1-year follow-up outcomes and differences across regions. *European Journal of Heart Failure*. 2016;18:613-25. IF: 5.135. Article.
  - Cuenca S, Ruiz-Cano MJ, Gimeno-Blanes JR, Jurado A, Salas C, Gomez-Díaz I, Padron-Barthe L, Grillo JJ, Vilches C, Segovia J, Pascual-Figal D, Lara-Pezzi E, Monserrat L, Alonso-Pulpon L, Garcia-Pavia P; Inherited Cardiac Diseases Program of the Spanish Cardiovascular Research Network. Genetic basis of familial dilated cardiomyopathy patients undergoing heart transplantation. *Journal of Heart and Lung Transplantation*. 2016;35:625-35. IF: 7.509. Article.
  - van Hagen IM, Boersma E, Johnson MR, Thorne SA, Parsonage WA, Escribano Subías P, Lesniak-Sobelga A, Irtyuga O, Sorour KA, Taha N, Maggioni AP, Hall R, Roos-Hesselink JW; ROPAC investigators and EORP team. Global cardiac risk assessment in the Registry Of Pregnancy And Cardiac disease: results of a registry from the European Society of Cardiology. *European Journal of Heart Failure*. 2016;18:523-33. IF: 5.135. Article.
  - López-Gil M, Fontenla A, Juliá J, Parra JJ, Arribas F. Phrenic paralysis during cardiac electronic device implantation: incidence, causes and clinical course. *Europace*. 2016;18:1561-4. IF: 4.021. Article.
  - Vidán MT, Blaya-Novakova V, Sánchez E, Ortiz J, Serra-Rexach JA, Bueno H. Prevalence and prognostic impact of frailty and its components in non-dependent elderly patients with heart failure. *European Journal of Heart Failure*. 2016;18:869-75. IF: 5.135. Article.
  - Lillo-Castellano JM, Marina-Breysse M, Gómez-Gallanti A, Martínez-Ferrer JB, Alzueta J, Pérez-Álvarez L, Alberola



- A, Fernández-Lozano I, Rodríguez A, Porro R, Anguera I, Fontenla A, González-Ferrer JJ, Cañas-Godoy V, Pérez-Castellano N, Garfalo D, Salvador-Montañés Ó, Calvo CJ, Quintanilla JG, Peinado R, Mora-Jiménez I, Pérez-Villacastín J, Rojo-Álvarez JL, Filgueiras-Rama D. Safety threshold of R-wave amplitudes in patients with implantable cardioverter defibrillator. *Heart.* 2016;102:1662-70. IF: 5.693. Article.
- Cordero A, Galve E, Bertomeu-Martínez V, Bueno H, Fáfila L, Alegría E, Cequier Á, Ruiz E, González-Juanatey JR. Trends in Risk Factors and Treatments in Patients With Stable Ischemic Heart Disease Seen at Cardiology Clinics Between 2006 and 2014. *Revista Española de Cardiología.* 2016;69:401-7. IF: 4.596. Article.
  - Navas P, Tenorio J, Quezada CA, Barrios E, Gordo G, Arias P, López Meseguer M, Santos-Lozano A, Palomino Doza J, Lapunzina P, Escribano Subías P. Molecular Analysis of BMPR2, TBX4, and KCNK3 and Genotype-Phenotype Correlations in Spanish Patients and Families With Idiopathic and Hereditary Pulmonary Arterial Hypertension. *Revista Española de Cardiología (English Ed.).* 2016;69:1011-9. IF: 4.596. Article.
  - Pedrote A, Fontenla A, García-Fernández J; Spanish Catheter Ablation Registry collaborators. Spanish Catheter Ablation Registry. 15th Official Report of the Spanish Society of Cardiology Working Group on Electrophysiology and Arrhythmias (2015). *Revista Española de Cardiología (English Ed.).* 2016;69:1061-70. IF: 4.596. Article.
  - González-Válchez F, Segovia Cubero J, Almenar L, Crespo-Leiro MG, Arizón JM, Sousa I, Delgado J, Roig E, Sobrino JM, González-Costello J; Spanish Heart Transplant Teams. Spanish Heart Transplantation Registry. 27th Official Report of the Spanish Society of Cardiology Working Group on Heart Failure and Heart Transplantation (1984-2015). *Revista Española de Cardiología (English Ed.).* 2016;69:1071-82. IF: 4.596. Article.
  - Mandich Crovetto D, Alonso Charterina S, Jimenez Lopez-Guarch C, Pont Vilalta M, Perez Nunez M, de Pablo Gafas A, Escribano Subías P. Multidetector computed tomography shows reverse cardiac remodeling after double lung transplantation for pulmonary hypertension. *Radiología.* 2016;58:277-82. IF: N.A. Article.
  - Mandich Crovetto D, Alonso Charterina S, Jiménez López-Guarch C, Pont Vilalta M, Pérez Núñez M, de Pablo Gafas A, Escribano Subías P. Multidetector computed tomography shows reverse cardiac remodeling after double lung transplantation for pulmonary hypertension. *Radiología.* 2016;58:277-82. IF: N.A. Article.
  - Alonso Salinas GL, Sanmartín Fernández M, Pascual Izco M, Martín Asenjo R, Recio-Mayoral A, Salvador Ramos L, Marzal Martín D, Camino López A, Jiménez Mena M, Zamorano Gómez JL. Frailty is a short-term prognostic marker in acute coronary syndrome of elderly patients. *European Heart Journal-Acute Cardiovascular Care.* 2016;5:434-40. IF: N.A. Article.
  - Lindau ST, Abramsohn E, Bueno H, D'Onofrio G, Lichtman JH, Lorenze NP, Sanghani RM, Spatz ES, Spertus JA, Strait KM, Wroblewski K, Zhou S, Krumholz HM. Sexual Activity and Function in the Year After an Acute Myocardial Infarction Among Younger Women and Men in the United States and Spain. *JAMA Cardiology.* 2016;1:754-64. IF: N.A. Article.
  - Ponikowski P, Voors AA, Anker SD, Bueno H, Cleland JG, Coats AJ, Falk V, González-Juanatey JR, Harjola VP, Jankowska EA, Jessup M, Linde C, Nihoyannopoulos P, Parissis JT, Pieske B, Riley JP, Rosano GM, Ruilope LM, Ruschitzka F, Rutten FH, van der Meer P; Authors/Task Force Members. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. *European Heart Journal.* 2016;37:2129-30. IF: 15.064. Review.
  - Martín-Sánchez FJ, Christ M, Miró Ò, Peacock WF, McMurray JJ, Bueno H, Maisel AS, Cullen L, Cowie MR, Di Somma S, Platz E, Masip J, Zeymer U, Vrints C, Price S, Mueller C. Practical approach on frail older patients attended for acute heart failure. *International Journal of Cardiology.* 2016;222:62-71. IF: 4.638. Review.
  - Julia J, Lopez-Gil M, Fontenla A, Lozano A, Villagraz L, Salguero R, Arribas F. Change in the Grade of Preexcitation and Progressive Prolongation of S-Delta Interval: What Is the Mechanism? *Journal of Cardiovascular Electrophysiology.* 2016;27:1356-9. IF: 3.097. Editorial Material.
  - Padial LR, Subias PE, Salvador ML, Almenar L, Subirana M, Segovia J, López-Guarch CJ, Jiménez JD, Sánchez MÁ, Martínez ÁM, Ferragut LM, Tejedor PN, Reguero JJ, Buasso DT, Martín TV, Anguita M, Cequier Á, Alfonso F, Badimón L, Barrabés JA, Lozano IF, de Diego JJ, Padial LR, Román JA, Sánchez PL, Sanchis J, Sionis A; SEC Working Group for ESC/ERS 2015 Guidelines for Diagnosis and Treatment of Pulmonary Hypertension; Expert Reviewers for ESC/ERS 2015 Guidelines for Diagnosis and Treatment of Pulmonary Hypertension; SEC Guidelines Committee. Comments on the 2015 ESC/ERS Guidelines for the Diagnosis and Treatment of Pulmonary Hypertension. *Revista Española de Cardiología.* 2016;69:102-8. IF: 4.596. Editorial Material.
  - Ortiz-Bautista C, Morán-Fernández L, Alonso-Charterina S, Escribano-Subías P. Digital clubbing in pulmonary veno-occlusive disease. *Medicina Clínica.* 2016;147:379. IF: 1.267. Editorial Material.
  - Fontenla A, Lozano A, Lopez-Gil M. ECG, September 2016. *Revista Española de Cardiología.* 2016;69: 865. IF: 4.596. Editorial Material.
  - Delgado JF, Bueno H. Heart failure: health is priceless ... but still expensive. *European Journal of Heart Failure.* 2016;18:1141-3. IF: 5.135. Editorial Material.
  - Fontenla A, Villagraz L, López-Gil M. Intracardiac drifting iceberg: a worrisome incident during cryoablation. *Europace.* 2016;18:1351. IF: 4.021. Editorial Material.
  - Fontenla A, López-Gil M, Juliá J, Arribas F. Left Free Wall Accessory Pathway Ablation in the Presence of a Mechanical Mitral Prosthesis. *Journal of Cardiovascular Electrophysiology.* 2016;27:759-60. IF: 3.097. Editorial Material.
  - Bueno H, Martín Asenjo R. Long-term Cardiovascular Risk After Acute Coronary Syndrome, An Ongoing Challenge. *Revista Española de Cardiología.* 2016;69:1-2. IF: 4.596. Editorial Material.
  - Jorge-Pérez P, García-González MJ, Ávalos-Pinto RM, G-Cosío-Carmena MD, Renes-Carreño E, Delgado JF, Yanes-Bowden G, Ferrer-Hita JJ. Spontaneous coronary
  - Gale CP, Bueno H. The race for higher sensitivity troponins, but for what prize? *European Heart Journal.* 2016;37:2425-7. IF: 15.064. Editorial Material.
  - Vidán MT, Bueno H. Trends in heart failure: going in the right direction? *European Journal of Heart Failure.* 2016; 18:1019-20. IF: 5.135. Editorial Material.
  - Molina-Martín de Nicolás J, López-Gil M, Fontenla A, Salguero R, Díaz-Antón B, Arribas F. Late Phrenic Nerve Stimulation in a Super-responder to Cardiac Resynchronization Therapy. *The Toll of Success? Revista Española de Cardiología (English Ed.).* 2016;69:868-70. IF: 4.596. Letter.
  - Velázquez Martín M, Albarrán González-Trevilla A, Escribano Subías P. Fractional Flow Reserve-guided Pulmonary Angioplasty in Chronic Thromboembolic Pulmonary Hypertension. *Revista Española de Cardiología (English Ed.).* 2016;69:863. IF: 4.596. Image.
  - Fontenla A, Lozano Á, López-Gil M. Response to ECG, September 2016. *Revista Española de Cardiología (English Ed.).* 2016;69:979. IF: 4.596. ECG.
  - Ortiz-Bautista C, Alonso-Charterina S, Escribano-Subías P. Fibrosing mediastinitis, an unusual clinical entity reminding chronic thromboembolic pulmonary hypertension. *Medicina Clínica.* 2016;147:130-1. IF: 1.267. Letter.
  - Navas P, Rodriguez Reguero JJ, Escribano Subías P. Founder mutation C.3344C > t(p.Pro1115Leu) in the EIF2KA4 gene in iberian romani patients with pulmonary veno-occlusive disease: A warning for our daily practice. *Archivos de Bronconeumología.* 2016;52:444-5. IF: 1.771. Letter.
  - Crespo Leiro MG, Delgado Jiménez JF. Heart Failure and Age. Response. *Revista Española de Cardiología (English Ed.).* 2016;69: 234. IF: 4.596. Letter.
  - Jorge-Pérez P, García-González MJ, Ávalos-Pinto RM, G-Cosío-Carmena MD, Renes-Carreño E, Delgado JF, Yanes-Bowden G, Ferrer-Hita JJ. Spontaneous coronary

- dissection and cardiogenic shock requiring mechanical circulatory support in a non-transplant center. International Journal of Cardiology. 2016;221:629-30. IF: 4.638. Letter.
- Unzué L, Fontenla A, López-Gil M. Syncopes in a Patient With a History of Radiotherapy: The Importance of a Comprehensive Assessment of Cardiac Involvement. Revista Espanola de Cardiologia. 2016;69:352. IF: 4.596. Letter.
  - Juliá J, López-Gil M, Villagraz L, Lozano Á, Fontenla A, Arribas F. The Usefulness of Vernakalant in Maintaining Sinus Rhythm During Ablation Procedures. Revista Espanola de Cardiología. 2016;69:708-9. IF: 4.596. Letter.
  - Velázquez Martín M, Albarrán González-Trevilla A, Jiménez López-Guarch C, García Tejada J, Martín Asenjo R, Escribano Subías P. Use of Atrial Septostomy to Treat Severe Pulmonary Arterial Hypertension in Adults. Revista Espanola De Cardiología. 2016;69:78-81. IF: 4.596. Letter.

## AGING, NEUROIMMUNOLOGY, AND NUTRITION



### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
<b>TOTAL</b>		<b>1</b>

- Title: Marcadores de velocidad de envejecimiento y longevidad saludables en humanos. Validación en modelos animales.  
Principal Investigator: Mónica de la Fuente del Rey  
Project No.: PI15/01787  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	7	30.628
<b>Total</b>	<b>7</b>	<b>30.628</b>

- Portal-Núñez S, Ardura JA, Lozano D, Bolívar OH, López-Herradón A, Gutiérrez-Rojas I, Proctor A, van der Eerden B, Schreuders-Koedam M, van Leeuwen J, Alcaraz MJ, Mulero F, de la Fuente M, Esbrit P. Adverse Effects of Diabetes Mellitus on the Skeleton of Aging Mice. *Journals of Gerontology Series A-Biological Sciences and Medical Sciences*. 2016;71:290-9. IF: 5.476. Article.
- de Toda IM, Vida C, Ortega E, De La Fuente M. Hsp70 basal levels, a tissue marker of the rate of aging and longevity in mice. *Experimental Gerontology*. 2016;84:21-8. IF: 3.350. Article.
- Jové M, Maté I, Naudí A, Mota-Martorell N, Portero-Otín M, De la Fuente M, Pamplona R. Human Aging Is a Metabolome-related Matter of Gender. *Journals of Gerontology Series A-Biological Sciences and Medical Sciences*. 2016;71:578-85. IF: 5.476. Article.
- Borras C, Abdelaziz KM, Gambini J, Serna E, Inglés M, de la Fuente M, García I, Matheu A, Sanchís P, Belenguer A, Errigo A, Avellana JA, Baretino A, Lloret-Fernández C, Flames N, Pes G, Rodríguez-Mañas L, Viña J. Human exceptional longevity: transcriptome from centenarians is distinct from septuagenarians and reveals a role of Bcl-xL in successful aging. *Aging-US*. 2016;8:3185-208. IF: 3.979. Article.
- Martínez de Toda I, Mate I, Vida C, Cruces J, De la Fuente M. Immune function parameters as markers of biological age and predictors of longevity. *Aging-US*. 2016;8:3110-9. IF: 3.979. Article.
- Hunsche C, Hernandez O, De la Fuente M. Impaired Immune Response in Old Mice Suffering from Obesity and Premature Immunosenescence in Adulthood. *Journals of Gerontology Series A-Biological Sciences and Medical Sciences*. 2016;71:983-91. IF: 5.476. Article.
- Bauer ME, Fuente Mde L. The role of oxidative and inflammatory stress and persistent viral infections in immunosenescence. *Mechanisms of Ageing and Development*. 2016;158:27-37. IF: 2.892. Article.

**THESES DEFENDED OR DIRECTED IN THIS GROUP**

- **Candidate:** Oskarina Hernández Bolívar  
**Title:** Cambios con el envejecimiento en la función y estado redox de leucocitos peritoneales de ratones sometidos a un shock endotóxico. Efecto de intervenciones horméticas y nutricionales.

**Director/s:** Mónica de la Fuente del Rey  
**Date Defended:** 21/01/2016  
**University:** Universidad Complutense de Madrid

- **Candidate:** Nuria de Castro de Frutos  
**Title:** La obesidad como modelo murino de envejecimiento prematuro. Estudio conductual, de función inmunitaria y estado oxidativo.

**PRIZES AND DISTINCTIONS**

- "Salgado Alba 2016" Prize in Biology for the best presentation at the 58 Congreso Nacional de la Sociedad Española de Geriatría y Gerontología, Sevilla 8-10 June 2016. "Una haploinsuficiencia en la tirosina hidroxilasa supone una mayor imunosenescencia y estrés oxidativo en la vejez y una menor longevidad". Authors: De la Fuente M, Cruces J, Ceprián N, Hernández-Sánchez C, de Pablo F, Garrido A.

**Director/s:** Mónica de la Fuente del Rey  
**Date Defended:** 21/01/2016  
**University:** Universidad Complutense de Madrid

- **Candidate:** Mercedes García Martín  
**Title:** Personalidad, bienestar y salud en jóvenes de 20 a 30 años.  
**Director/s:** Mónica de la Fuente del Rey, Fernando Colmenares Gil  
**Date Defended:** 04/02/2016  
**University:** Universidad Complutense de Madrid

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# RESPIRATORY DISEASES

## GROUP DIRECTOR

Álvarez Martínez, Carlos José

## RESEARCH GROUP MEMBERS

Alonso Moralejo, Rodrigo  
 Benavides Mañas, Pedro Daniel  
 Castro Acosta, Ady Angélica  
 de Granda Orive, José Ignacio  
 de Miguel Poch, Eduardo  
 de Pablo Gafas, Alicia  
 del Pozo Rivas, Roberto  
 Díaz Cambriales, Mª Trinidad  
 Díaz Campos, Rocío Magdalena  
 Díaz de Atauri Rodríguez de los  
 Ríos, Mª Josefa  
 Díaz-Hellín Gude, Vicente  
 Fernández González, Saúl  
 Gámez García, Antonio Pablo  
 García Luján, Ricardo  
 Gómez López, Mª Antolina  
 Gómez Sánchez, Miguel Ángel  
 Hernando Sanz, Ascensión  
 López Padilla, Daniel Eduardo  
 Marrón Fernández, Carmen  
 Melero Moreno, Carlos  
 Padilla Bernáldez, Marta  
 Pérez González, Virginia Luz  
 Pozo Rodríguez, Francisco  
 Sayas Catalán, Javier  
 Villena Garrido, Mª Victoria

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	3
<b>TOTAL</b>		<b>5</b>

- Title: Design and local implementation of clinical audits in different types of old (DELICATO).  
 Principal Investigator: Carlos José Álvarez Martínez  
 Project No.: PI13/01993  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2014  
 End date: 31/12/2016  
 y biopsia transbronquial. Aplicación en el diagnóstico de rechazo en el trasplante pulmonar.  
 Principal Investigator: Ricardo García Luján  
 Project No.: FIMM 2013/0071  
 Funding Body: Fundación Mutua Madrileña  
 Start date: 20/07/2013  
 End date: 19/07/2015, extended to 30/06/2017
- Title: Diferencias en la rentabilidad diagnóstica de enfermedad pulmonar intersticial difusa entre criobiopsia y análisis retrospectivo del tratamiento con treprostínil en un grupo de pacientes con hipertensión arterial pul-

monar. Efectos sobre la capacidad funcional, la hemodinámica y la supervivencia y su tolerabilidad a largo plazo. Experiencia en un centro.

Principal Investigator: Miguel Ángel Gómez Sánchez

Funding Body: Ferrer Farma, S.A.

Start date: 01/07/2013

End date: 30/06/2016

- Titulo: Programa atención domiciliaria neumológica en EPOC.

Principal Investigator: Carlos José Álvarez Martínez

Funding Body: Oximesa, S.L.

Start date: 04/06/2013

End date: 03/06/2016

- Title: Evaluación de la adherencia a las terapias respiratorias.

Principal Investigator: Carlos José Álvarez Martínez

Funding Body: Oximesa, S.L.

Start date: 19/02/2015

End date: 18/02/2018

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	20	76.226
Editorials	4	5.495
<b>Total</b>	<b>24</b>	<b>81.721</b>

- Marron MC, Lora D, Gamez P, Rivas JJ, Embun R, Molins L, de la Cruz J; GECMP-CCR-SEPAR Spanish Colorectal Metastasectomy Registry. Agreement Between Computed Tomography and Pathologic Nodule Counts in Colorectal Lung Metastases. Annals of Thoracic Surgery. 2016; 101:259-65. IF: 3.021. Article.
- López-Padilla D, Peghini Gavilanes E, Revilla Ostolaza TY, Trujillo MD, Martínez Serna I, Arenas Valls N, Girón Matute WI, Larrosa-Barrero R, Manrique Multiozábal A, Pérez Gallán M, Zevallos A, Sayas Catalán J. Arterial Stump Thrombosis after Lung Resection Surgery: Clinical Presentation, Treatment and Progress. Archivos de Bronconeumología. 2016;52:512-8. IF: 1.771. Article.
- López-Padilla D, Alonso-Moralejo R, Martínez-García
- MÁ, De la Torre Carazo S, Díaz de Atauri MJ. Continuous positive airway pressure and survival of very elderly persons with moderate to severe obstructive sleep apnea. Sleep Medicine. 2016;19:23-9. IF: 3.339. Article.
- Silva JT, López-Medrano F, Alonso-Moralejo R, Fernández-Ruiz M, de Pablo-Gafas A, Pérez-González V, San-Juan R, Pérez-Jacoiste Asín MA, Ruiz-Merlo T, Folgueira MD, Aguado JM. Detection of Epstein-Barr virus DNAemia after lung transplantation and its potential relationship with the development of post-transplant complications. Transplant Infectious Disease. 2016;18:431-41. IF: 1.459. Article.
- Plaza V, López-Viña A, Entrenas LM, Fernández-Rodríguez C, Melero C, Pérez-Llano L, Gutiérrez-Pereyra F, Tarragona

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- E, Palomino R, Cosio BG. Differences in Adherence and Non-Adherence Behaviour Patterns to Inhaler Devices Between COPD and Asthma Patients. *COPD-Journal of Chronic Obstructive Pulmonary Disease*. 2016;13:547-54. IF: 2.160. Article.
- Villar Álvarez F, Muguruza Trueba I, Belda Sanchis J, Molins López-Rodó L, Rodríguez Suárez PM, Sánchez de Cos Escuín J, Barreiro E, Borrego Pintado MH, Disdier Vicente C, Flandes Aldeyturriaga J, Gámez García P, Garrido López P, León Atance P, Izquierdo Elena JM, Novoa Valentín NM, Rivas de Andrés JJ, Royo Crespo Í, Salvatierra Velázquez Á, Seijo Maceiras LM, Solano Reina S, Aguiar Bujanda D, Ávila Martínez RJ, de Granda Orive JI, de Higes Martínez E, Diaz-Hellín Gude V, Embún Flor R, Freixinet Gilart JL, García Jiménez MD, Hermoso Alarza F, Hernández Sarmiento S, Honguero Martínez AF, Jimenez Ruiz CA, López Sanz I, Mariscal de Alba A, Martínez Vallina P, Menal Muñoz P, Mezquita Pérez L, Olmedo García ME, Rombolá CA, San Miguel Arregui I, de Valle Somiedo Gutiérrez M, Triviño Ramírez AI, Trujillo Reyes JC, Vallejo C, Vaquero Lozano P, Varela Simó G, Zulueta JJ. Executive summary of the SEPAR recommendations for the diagnosis and treatment of non-small cell lung cancer. *Archivos de Bronconeumología*. 2016;52:378-88. IF: 1.771. Article.
  - Serra Fortuny M, Gallego M, Berna L, Montón C, Vigil L, Masdeu MJ, Fernández-Villar A, Botana MI, Cordovilla R, García-Luján R, Cases E, Monsó E. FDG-PET parameters predicting mediastinal malignancy in lung cancer. *BMC Pulmonary Medicine*. 2016;16:177. IF: 2.329. Article.
  - Fortún J, Martín-Dávila P, Gómez García de la Pedrosa E, Silva JT, García-Rodríguez J, Benito D, Venanzi E, Castaño F, Fernández-Ruiz M, Lazaro F, García-Luján R, Quiles I, Cabanillas JJ, Moreno S, Aguado JM. Galactomannan in bronchoalveolar lavage fluid for diagnosis of invasive aspergillosis in non-hematological patients. *Journal of Infection*. 2016;72:738-44. IF: 4.382. Article.
  - Delcroix M, Lang I, Pepke-Zaba J, Jansa P, D'Armini AM, Snijder R, Bresser P, Torbicki A, Mellemkjaer S, Lewczuk J, Simkova I, Barberà JA, de Perrot M, Hoeper MM, Gaine S, Speich R, Gómez-Sánchez MA, Kovacs G, Jaïs X, Ambroz D, Treacy C, Morsolini M, Jenkins D, Lindner J, Darteville P, Mayer E, Simonneau G. Long-Term Outcome of Patients With Chronic Thromboembolic Pulmonary Hypertension Results From an International Prospective Registry. *Circulation*. 2016;133:859-71. IF: 17.202. Article.
  - Solano Reina S, Jiménez Ruiz CA, de Higes Martínez E, García Rueda M, Callejas González FJ, de Granda Orive JI, Vaquero Lozano P, de Lucas Ramos P, Alfageme Michavila I. Prevalence, Knowledge and Attitudes Towards Smoking Among SEPAR Members. *Archivos de Bronconeumología*. 2016;52:605-10. IF: 1.771. Article.
  - Escribano-Subías P, Del Pozo R, Román-Broto A, Domingo Morera JA, Lara-Padrón A, Elías Hernández T, Molina-Ferragut L, Blanco I, Cortina J, Barberà JA; REHAP investigators. Management and outcomes in chronic thromboembolic pulmonary hypertension: From expert centers to a nationwide perspective. *International Journal of Cardiology*. 2016;203:938-44. IF: 4.638. Article.
  - López-Jiménez MJ, Masa JF, Corral J, Terán J, Ordaz E, Troncoso MF, González-Mangado N, González M, Lopez-Martínez S, De Lucas P, Marín JM, Martí S, Díaz-Cambriles T, Chiner E, Merchan M, Egea C, Obeso A, Mokhlesi B, Spanish Sleep Network, García-Ledesma E, Sánchez-Quiroga MÁ, Ordax E, González-Mangado N, Troncoso MF, Martínez-Martínez MÁ, Cantalejo O, Ojeda E, Carrizo SJ, Gallego B, Pallero M, Ramón MA, Díaz-de-Atauri J, Muñoz-Méndez J, Senent C, Sancho-Chust JN, Ribas-Solis FJ, Barrot E, Benítez JM, Sanchez-Gómez J, Golpe R, Santiago-Recuerda A, Gómez S, Bengoa M. Protective Cardiovascular Effect of Sleep Apnea Severity in Obesity Hypoventilation Syndrome. *Chest*. 2016;150:68-79. IF: 6.136. Article.
  - Masa JF, Utrabo I, Gómez de Terreros J, Aburto M, Esteban C, Prats E, Núñez B, Ortega-González Á, Jara-Palomares L, Martín-Vicente MJ, Farrero E, Binimelis A, Sala E, Serrano-Rebollo JC, Barrot E, Sánchez-Oro-Gómez R, Fernández-Álvarez R, Rodríguez-Jerez F, Sayas J, Benavides P, Català R, Rivas FJ, Egea CJ, Antón A, Peñacoba P, Santiago-Recuerda A, Gómez-Mendieta MA, Méndez L, Cebrian JJ, Piña JA, Zamora E, Segrelles G. Noninvasive ventilation for severely acidotic patients in respiratory intermediate care units Precision medicine in intermediate care units. *BMC Pulmonary Medicine*. 2016;16:97. IF: 2.329. Article.
  - Pérez-Peña GM, Rúa-Figueroa I, Juliá-Serdá G, León-Marrero F, García-Quintana A, Ortega-Trujillo JR, Erausquin-Arruabarrena C, Rodríguez-Lozano C, Cabrera-Navarro P, Ojeda-Betancor N, Gómez-Sánchez MÁ. Pulmonary Arterial Hypertension in Systemic Lupus Erythematosus: Prevalence and Predictors. *Journal of Rheumatology*. 2016;43:323-9. IF: 3.236. Article.
  - Álvarez FV, Trueba IM, Sanchis JB, López-Rodó LM, Rodríguez Suárez PM, de Cos Escuín JS, Barreiro E, Henar Borrego Pintado M, Vicente CD, Aldeyturriaga JF, Gámez García P, Garrido López P, León Atance P, Izquierdo Elena JM, Novoa Valentín NM, Rivas de Andrés JJ, Crespo ÍR, Velázquez ÁS, Seijo Maceiras LM, Reina SS, Bujanda DA, Ávila Martínez RJ, de Granda Orive JI, Martínez EH, Gude VD, Flor RE, Freixinet Gilart JL, García Jiménez MD, Alarza FH, Sarmiento SH, Honguero Martínez AF, Jiménez Ruiz CA, Sanz IL, Mariscal de Alba A, Martínez Vallina P, Menal Muñoz P, Pérez LM, Olmedo García ME, Rombolá CA, Arregui ÍS, Somiedo Gutiérrez MD, Triviño Ramírez AI, Trujillo Reyes JC, Vallejo C, Lozano PV, Simó GV, Zulueta JJ. Recommendations of the Spanish Society of Pneumology and Thoracic Surgery on the diagnosis and treatment of non-small-cell lung cancer. *Archivos de Bronconeumología*. 2016;52:2-62. IF: 1.771. Article.
  - Hartl S, Lopez-Campos JL, Pozo-Rodríguez F, Castro-Acosta A, Studnicka M, Kaiser B, Roberts CM. Risk of death and readmission of hospital-admitted COPD exacerbations: European COPD Audit. *European Respiratory Journal*. 2016;47:113-21. IF: 8.332. Article.
  - Masa JF, Corral J, Romero A, Caballero C, Terán-Santos J, Alonso-Álvarez ML, Gomez-Garcia T, González M, López-Martínez S, De Lucas P, Marin JM, Martí S, Díaz-Cambriles T, Chiner E, Merchan M, Egea C, Obeso A, Mokhlesi B; Spanish Sleep Network, García-Ledesma E, Sánchez-Quiroga MÁ, Ordax E, González-Mangado N, Troncoso MF, Martínez-Martínez MÁ, Cantalejo O, Ojeda E, Carrizo SJ, Gallego B, Pallero M, Ramón MA, Díaz-de-Atauri J, Muñoz-Méndez J, Senent C, Sancho-Chust JN, Ribas-Solis FJ, Barrot E, Benítez JM, Sanchez-Gómez J, Golpe R, Santiago-Recuerda A, Gómez S, Bengoa M. The Effect of Supplemental Oxygen in Obesity Hypoventilation Syndrome. *Journal of Clinical Sleep Medicine*. 2016;12:1379-88. IF: 2.710. Article.
  - Plaza V, Fernández-Rodríguez C, Melero C, Cosío BG, Entrenas LM, Pérez de Llano L, Gutiérrez-Pereyra F, Tarragona E, Palomino R, López-Viña A. Validation of the 'Test of the Adherence to Inhalers' (TAI) for Asthma and COPD Patients. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*. 2016;29:142-52. IF: 3.041. Article.
  - Ruparel M, López-Campos JL, Castro-Acosta A, Hartl S, Pozo-Rodríguez F, Roberts CM. Understanding variation in length of hospital stay for COPD exacerbation: European COPD audit. *ERJ Open Research*. 2016;2(1).pii: 00034-2015. IF: N/A. Article.
  - de Granda-Orive JI, Alonso-Arroyo A, Pascual-Lledo JF, Lopez-Padilla DE, Garcia-Rio F, Aleixandre-Benavent R. Relationship and correspondence between different impact indicators in a sample of articles of excellence. *Anales de Documentación*. 2016;1-17. IF: N/A. Article.
  - Mandich Crovetto D, Alonso Charterina S, Jimenez Lopez-Guarch C, Pont Vilalta M, Perez Nunez M, de Pablo Gafas A, Escribano Subias P. Multidetector computed tomography shows reverse cardiac remodeling after double lung transplantation for pulmonary hypertension. *Radiología*. 2016;58:277-82. IF: N/A. Article.
  - Valencia Orgaz O, Real Navacerrada MI, Cortés Guerrero

- M, García Gutierrez AF, Marrón Fernández C, Pérez-Cerdá Silvestre F. Lung isolation in patients with previous lung resections: Selective sequential lobar blockade using a Fuji Uniblocker® endobronchial blocker. *Revista Española de Anestesiología y Reanimación*. 2016;63:539-43. IF: N/A. Article.
- Mandich Crovetto D, Alonso Charterina S, Jiménez López-Guarch C, Pont Vilalta M, Pérez Núñez M, de Pablo Gafas A, Escribano Subías P. Multidetector computed tomography shows reverse cardiac remodeling after double lung transplantation for pulmonary hypertension. *Radiología*. 2016;58:277-82. IF: N/A. Article.
  - de Granda-Orive JI, Solano-Reina S. Chronic Obstructive Pulmonary Disease Mortality. SEPAR COPD-Smoking Year. *Archivos de Bronconeumología*. 2016;52:407-8. IF: 1.771. Editorial Material.
  - Silva D, Gomez-Sánchez, MA. Heart Failure: A New Epidemic of Cardiovascular Disease. *Acta Médica Portuguesa*. 2016;29:10-1. IF: 0.304. Editorial Material.
  - Segrelles Calvo G, de Granda-Orive I, Lopez Padilla D. Inhaled Tranexamic Acid as an Alternative for Hemoptysis Treatment. *Chest*. 2016;149:604. IF: 6.136. Letter.
  - Segrelles-Calvo G, López-Padilla D, de Granda-Orive JI. Pros and Cons of Telemedicine in the Management of Patients with Chronic Respiratory Diseases. *Archivos de Bronconeumología*. 2016;52:575-6. IF: 1.771. Editorial Material.
  - Lopez-Padilla D, Garcia-Lujan R, Puente Maestu L, de Miguel Poch E. Tracheobronchomalacia treatment: how far have we come? *Journal of Thoracic Disease*. 2016;8:3490-3. IF: 1.649. Editorial Material.

## ARTERIAL HYPERTENSION AND CARDIOVASCULAR RISK



### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	Fundación SENEFRO	1
<b>TOTAL</b>		<b>5</b>

- Title: HPP Iniciativa Cardiovascular: variaciones del perfil molecular y "ómico" con la edad y la estratificación del riesgo cardiovascular.  
Principal Investigator: Luis Miguel Ruilope Urioste  
Project No.: PI14/01841  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017  
de marcadores biológicos de respuesta terapéutica.  
Principal Investigator: José Julián Segura de la Morena  
Project No.: PI13/01746  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016, extended to 30/06/2018
- Title: Nuevos abordajes en el estudio de la evolución de órganos diana en pacientes hipertensos tratados con bloqueantes del sistema renina angiotensina.  
Principal Investigator: Luis Miguel Ruilope Urioste

Project No.: PI11/02432  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2012  
 End date: 30/12/2014, extended to 30/06/2016

- Title: Integrating novel biomarkers in the management of difficult-to-control hypertension: a multidisciplinary and translational approach.  
 Principal Investigator: Gema Ruiz Hurtado  
 Project No.: CP15/00129  
 Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016  
 End date: 30/12/2018

- Title: Papel de las metaloproteinasas de matriz en la albúminuria desarrollada bajo el bloqueo del sistema renina angiotensina.  
 Principal Investigator: Gema Ruiz Hurtado  
 Funding Body: Fundación SENEFRO  
 Start date: 01/01/2016  
 End date: 30/12/2018

criteria for the SPRINT trial. *Journal of The American Society of Hypertension*. 2016;10:947-53. IF: 2.656. Article.

- Ruiz-Hurtado G, Ruilope LM, de la Sierra A, Sarafidis P, de la Cruz JJ, Gorostidi M, Segura J, Vinyoles E, Banegas JR. Association Between High and Very High Albúminuria and Nighttime Blood Pressure: Influence of Diabetes and Chronic Kidney Disease. *Diabetes Care*. 2016;39:1729-37. IF: 8.934. Article.

- Brotons C, Calvo-Bonacho E, Moral I, Puig M, García-Margallo MT, Cortés-Arcas MV, Catalina-Romero C, Quevedo-Aguado L, Ruilope LM. Comparison of application of different methods to estimate lifetime cardiovascular risk. *European Journal of Preventive Cardiology*. 2016;23:564-71. IF: 3.361. Article.

- Gonzalez-Calero L, Martin-Lorenzo M, Martinez PJ, Baldan-Martin M, Ruiz-Hurtado G, Segura J, De La Cuesta F, Barderas MG, Ruilope LM, Vivanco F, Alvarez-Llamas G. Hypertensive patients exhibit an altered metabolism. A specific metabolite signature in urine is able to predict albuminuria progression. *Translational Research*. 2016;178:25-37. IF: 4.557. Article.

- División-Garrote JA, Banegas JR, De la Cruz JJ, Escobar-Cervantes C, De la Sierra A, Gorostidi M, Vinyoles E, Abellán-Aleman J, Segura J, Ruilope LM. Hypotension based on office and ambulatory monitoring blood pressure. Prevalence and clinical profile among a cohort of 70,997 treated hypertensives. *Journal of the American Society of Hypertension*. 2016;10:714-23. IF: 2.656. Article.

- Ruilope LM, Nowack C, Bakris GL. Masked and Nocturnal Hypertension in the ARTS-DN ABPM Sub-Study with Finerenone. *Journal of the American Society of Hypertension*. 2016;10(Suppl 1):e7. IF: 2.656. Article.

- Oliveras A, Segura J, Suarez C, García-Ortiz L, Abad-Cardiel M, Vigil L, Gómez-Marcos MA, Sans Atxer L, Martell-Claros N, Ruilope LM, de la Sierra A. Modification over time of pulse wave velocity parallel to changes in aortic BP, as well as in 24-h ambulatory brachial BP. *Journal of Human Hypertension*. 2016;30:186-90. IF: 2.833. Article.

- de la Sierra A, Banegas JR, Vinyoles E, Gorostidi M, Segura J, de la Cruz JJ, Ruilope LM. Office and ambulatory blood pressure control in hypertensive patients treated with different two-drug and three-drug combinations. *Clinical and Experimental Hypertension*. 2016;38:409-14. IF: 1.307. Article.

- Baldan-Martin M, Mourino-Alvarez L, Gonzalez-Calero L, Moreno-Luna R, Sastre-Oliva T, Ruiz-Hurtado G, Segura J, Lopez JA, Vazquez J, Vivanco F, Alvarez-Llamas G, Ruilope LM, Cuesta F, Barderas MG. Plasma Molecular Signatures in Hypertensive Patients With Renin-Angiotensin System Suppression New Predictors of Renal Damage and De Novo Albúminuria Indicators. *Hypertension*. 2016;68:157. IF: 6.350. Article.

- Böhm M, Ukena C, Ewen S, Linz D, Zivanovic I, Hoppe U, Narkiewicz K, Ruilope L, Schlaich M, Negoita M, Schmieder R, Williams B, Zeymer U, Zirlik A, Mancia G, Mahfoud F; Global SYMPLICITY Registry Investigators. Renal denervation reduces office and ambulatory heart rate in patients with uncontrolled hypertension: 12-month outcomes from the global SYMPLICITY registry. *Journal of Hypertension*. 2016;34:2480-6. IF: 5.062. Article.

- Pulido-Olmo H, García-Prieto CF, Álvarez-Llamas G, Barderas MG, Vivanco F, Aranguez I, Somoza B, Segura J, Kreutz R, Fernández-Alfonso MS, Ruilope LM, Ruiz-Hurtado G. Role of matrix metalloproteinase-9 in chronic kidney disease: a new biomarker of resistant albuminuria. *Clinical Science*. 2016;130:525-38. IF: 5.016. Article.

- de la Sierra A, Vinyoles E, Banegas JR, Parati G, de la Cruz JJ, Gorostidi M, Segura J, Ruilope LM. Short-Term and Long-Term Reproducibility of Hypertension Phenotypes Obtained by Office and Ambulatory Blood Pressure Measurements. *Journal of Clinical Hypertension*. 2016;18:927-33. IF: 2.549. Article.

- Schmieder RE, Bramlage P, Haller H, Ruilope LM, Böhm M; ROADMAP Investigators. The Effect of Resting Heart Rate on the New Onset of Microalbuminuria in Patients With Type 2 Diabetes A Subanalysis of the ROADMAP Study. *Medicine*. 2016;95(15):e3122. IF: 2.133. Article.

#### PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	17	68.560
Reviews	7	55.227
Editorials	2	7.611
<b>Total</b>	<b>26</b>	<b>131.398</b>

- Calvo-Bonacho E, Catalina-Romero C, Sainz-Gutiérrez JC, Cabrera-Sierra M, Quevedo-Aguado L, Fernández-Labandera C, Brotons C, Ruilope LM. [OP.LB01.06] Effectiveness of a comprehensive health promotion strategy in workers with high cardiovascular risk. *Journal of Hypertension*. 2016;34:E37. IF: 5.062. Article.
- Ponikowski P, Voors AA, Anker SD, Bueno H, Cleland JG, Coats AJ, Falk V, González-Juanatey JR, Harjola VP, Jankowska EA, Jessup M, Linde C, Nihoyannopoulos P, Parissis JT, Pieske B, Riley JP, Rosano GM, Ruilope LM, Ruschitzka F, Rutten FH, van der Meer P; Authors/Task Force Members, Document Reviewers. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure: The Task Force for the diagnosis and treatment of
- acute and chronic heart failure of the European Society of Cardiology (ESC). Developed with the special contribution of the Heart Failure Association (HFA) of the ESC. *European Journal of Heart Failure*. 2016;18:891-975. IF: 5.135. Article.
- Abellán Alemán J, Zafrilla Rentero MP, Montoro-García S, Mulero J, Pérez Garrido A, Leal M, Guerrero L, Ramos E, Ruilope LM. Adherence to the "Mediterranean Diet" in Spain and Its Relationship with Cardiovascular Risk (DIMERICA Study). *Nutrients*. 2016;8(11).pii:E680. IF: 3.759. Article.
- de la Sierra A, Banegas JR, Divison JA, Gorostidi M, Vinyoles E, de la Cruz JJ, Segura J, Ruilope LM. Ambulatory blood pressure in hypertensive patients with inclusion

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

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- Gonzalez-Calero L, Martin-Lorenzo M, de la Cuesta F, Maroto AS, Baldan-Martin M, Ruiz-Hurtado G, Pulido-Olmo H, Segura J, Barderas MG, Ruilope LM, Vivanco F, Alvarez-Llamas G. Urinary alpha-1 antitrypsin and CD59 glycoprotein predict albuminuria development in hypertensive patients under chronic renin-angiotensin system suppression. *Cardiovascular Diabetology*. 2016;15:8. IF: 4.534. Article.
  - Prado JC, Ruilope LM, Segura J. Utilidad de la espironolactona en el manejo farmacológico de la hipertensión arterial resistente. Comentarios sobre el estudio Pathway-2. *Hipertension y Riesgo Vascular*. 2016; 33:150-4. IF: N/A. Article.
  - Escobar C, Abad-Cardiel M, Prieto MA, de la Figuera M, Barrios V, Segura J. Cambios en los objetivos terapéuticos y grado de control de la hipertensión arterial: nuevas evidencias. *Hipertension y Riesgo Vascular*. 2016;33:63-8. IF: N/A. Article.
  - Ruiz-Hurtado G, Vigil L, Ruilope LM. La mejoría del pronóstico cardiovascular de la diabetes mellitus tipo 2 ¿es una realidad? *Hipertension y Riesgo Vascular*. 2016;33:123-5. IF: N/A. Article.
  - Ponikowski P, Voors AA, Anker SD, Bueno H, Cleland JG, Coats AJ, Falk V, González-Juanatey JR, Harjola VP, Jankowska EA, Jessup M, Linde C, Nihoyannopoulos P, Parissis JT, Pieske B, Riley JP, Rosano GM, Ruilope LM, Ruschitzka F, Rutten FH, van der Meer P; Authors/Task Force Members. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. *European Heart Journal*. 2016;37:2129-30. IF: 15.064. Review.
  - Gorostidi M, Banegas JR, de la Sierra A, Vinyoles E, Segura J, Ruilope LM. Ambulatory blood pressure monitoring in daily clinical practice - the Spanish ABPM Registry experience. *European Journal of Clinical Investigation*. 2016;46:92-8. IF: 2.687. Review.
  - van Veldhuisen DJ, Ruilope LM, Maisel AS, Damman K. Biomarkers of renal injury and function: diagnostic, prognostic and therapeutic implications in heart failure. *European Heart Journal*. 2016;37:2577-88. IF: 15.064. Review.
  - Cremer A, Amraoui F, Lip GY, Morales E, Rubin S, Segura J, Van den Born BJ, Gosse P. From malignant hypertension to hypertension-MOD: a modern definition for an old but still dangerous emergency. *Journal of Human Hypertension*. 2016;30:463-6. IF: 2.833. Review.
  - Ruiz-Hurtado G, Sarafidis P, Fernández-Alfonso MS, Waeber B, Ruilope LM. Global cardiovascular protection in chronic kidney disease. *Nature Reviews Cardiology*. 2016;13:603-8. IF: 10.533. Review.
  - Diez J, Ruilope LM. Serelaxin for the treatment of acute heart failure: a review with a focus on end-organ protection. *European Heart Journal-Cardiovascular Pharmacotherapy*. 2016;2:119-30. IF: N/A. Review.
  - Zannad F, Rossignol P, Stough WG, Epstein M, Alonso Garcia Mde L, Bakris GL, Butler J, Kosiborod M, Berman L, Mebazaa A, Rasmussen HS, Ruilope LM, Stockbridge N, Thompson A, Wittes J, Pitt B. New approaches to hyperkalemia in patients with indications for renin angiotensin aldosterone inhibitors: Considerations for trial design and regulatory approval. *International Journal of Cardiology*. 2016;216:46-51. IF: 4.638. Review.
  - Tamargo J, Ruilope LM. Investigational calcium channel blockers for the treatment of hypertension. *Expert Opinion on Investigational Drugs*. 2016;25:1295-309. IF: 4.408. Review.
  - Zanchetti A, Liu L, Mancia G, Parati G, Grassi G, Strambadiale M, Silani V, Bilo G, Corrao G, Zambon A, Scotti L, Zhang X, Guan TR, Zhang Y, Zhang X, Berge E, Redon J, Narkiewicz K, Dominiczak A, Nilsson P, Viigimaa M, Laurent S, Agabiti-Rosei E, Wu Z, Zhu D, Rodicio JL, Ruilope LM, Martell-Claros N, Pinto F, Schmieder RE, Burnier M, Banach M, Cifkova R, Farsang C, Konradi A, Lazareva I, Sirenko Y, Dorobantu M, Postadzhian A, Accetto R, Jelakovic B, Lovic D, Manolis AJ, Stylianou P, Dicker D, Wei G, Xu C, Xie H, Coca A, O'Brien J, Ford G; ESH-CHL-SHOT trial investigators. Continuation of the ESH-CHL-SHOT trial after publication of the SPRINT: rationale for further study on blood pressure targets of antihypertensive treatment after stroke. *Journal of Hypertension*. 2016;34:393-6. IF: 5.062. Editorial Material.
  - Ruilope LM, Banegas JR. El estudio SPRINT en la práctica clínica: ¿se debe modificar el objetivo de control de la presión arterial? *Hipertension y Riesgo Vascular*. 2016;33:47-50. IF: N/A. Editorial Material.
  - Ruiz-Hurtado G, Ruilope LM. New Strategy to Control Blood Pressure: Interactive Mobile Phone Support. *Journal of Clinical Hypertension*. 2016;18:109-10. IF: 2.549. Editorial Material.
  - Prado JC, Salado D, Ruilope LM, Segura J. Second denervation in a patient with resistant hypertension. *Clinical Research in Cardiology*. 2016;105:880-3. IF: 4.324. Letter.

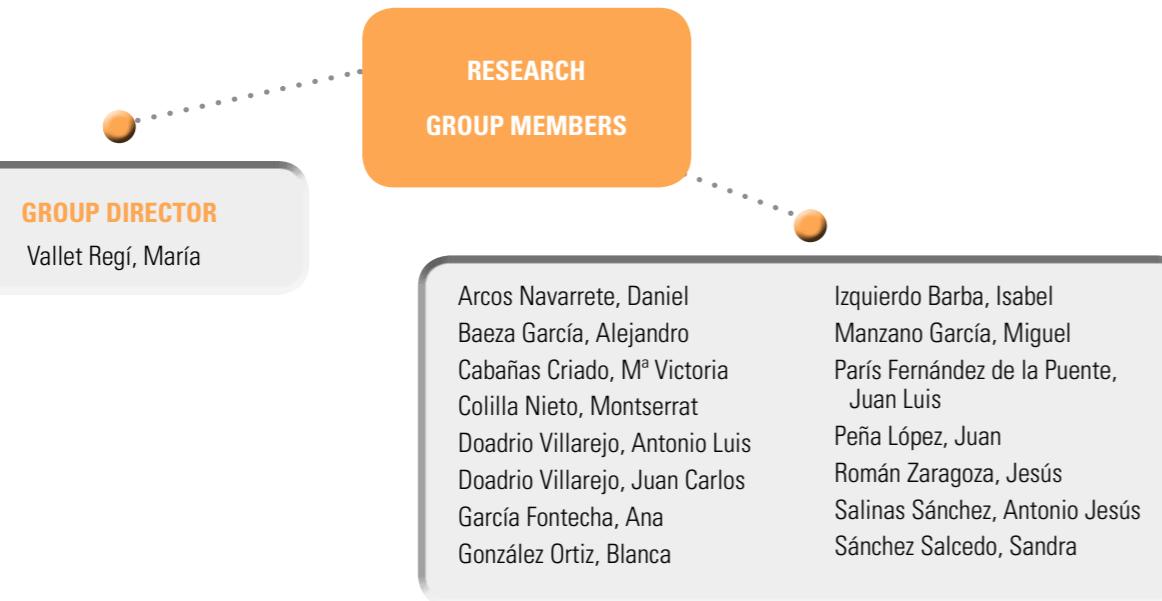
#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Helena Pulido Olmo  
**Title:** Análisis traslacional de la presencia de albuminuria y su relación con la disfunción endotelial y el estrés oxidativo.  
**Director/s:** Gema Ruiz Hurtado, M<sup>a</sup> Isabel Aránguez Alonso, Marisol Fernández Alfonso  
**Date Defended:** 05/10/2016  
**University:** Universidad Complutense de Madrid

#### PATENTS

- **Title:** Un método pronóstico y kit para la identificación de riesgo de desarrollo de albuminuria, riesgo de daño renal y riesgo cardiovascular en un sujeto humano hipertenso.  
**Number:** P201630559.  
**Type:** Spanish.  
**Inventors:** Luis Miguel Ruilope Urioste, Gloria Álvarez Llamas, Fernando Martín Vivanco, Laura González Calero, M<sup>a</sup> Eugenia González Barderas.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación Jiménez Díaz (60%), Fundación de Investigación del Hospital Nacional de Parapléjicos de Toledo (20%).  
**Date of application:** 29/04/2016

# RESEARCH ON INTELLIGENT BIOMATERIALS

**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
<b>TOTAL</b>		<b>1</b>

- Title: Soportes biocerámicos enriquecidos con células mesenquimales y osteostatina para la regeneración de defectos óseos.  
Principal Investigator: Antonio Jesús Salinas Sánchez  
Project No.: PI15/00978  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

**ACTIVE PROJECTS NOT MANAGED  
BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)**

- Title: Estructuras macroporosas asociadas a factores de crecimiento para la reconstrucción de defectos óseos y defectos en hueso osteoporótico.  
Principal Investigator: Daniel Arcos Navarrete y Mª Teresa Portolés Pérez  
Project No.: MAT2013-43299-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2014  
End date: 31/12/2016
- Title: MesOporous matrices for localized pH-triggered release of the RapuTic ions and drugs (MOZART).  
Organism: European Commission Horizon 2020  
Call: H2020-NMP-PILOTS-2015 (Call for Nanotechnologies, Advanced Materials and Production)  
Topic: NMP-06-2015 (Novel nanomaterials and nanocapsules)  
Type of Action: RIA (Research and Innovation Actions)  
Duration: 48 meses  
Project coordinator: Chiara Vitale. WP 4 leader: María Vallet-Regí
- Title: nanoSisTema polivalente capaz de apoyar soluciones para hueso infectado, con cáncer y osteoporótico (STRAUSS).

Principal Investigator: María Vallet-Regí  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Project No.: MAT2015-64831-R  
Start date: 2015  
End date: 2017

- Title: PolyValent mEsopoRous nanosystem for bone Diseases (VERDI).  
Principal Investigator: María Vallet-Regí  
Funding Body: European Research Council Executive Agency. Horizon 2020  
Project No.: ERC-2015-AdG Proposal No. 694160  
Start date: 01/10/2016  
End date: 30/09/2021
- Varios Proyectos de Investigación Intramurales: SPRING, MULTISCAFF, GOLIATH, SCAFFBONE, NanoPrevHIV y COATREG-3D.  
Principal Investigator: María Vallet-Regí  
Funding Body: CIBER-BBN  
Start date: 2016  
End date: 2017

**PUBLICATIONS\***

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	20	89.357
Reviews	1	3.614
<b>Total</b>	<b>21</b>	<b>92.971</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Vila M, García A, Girotti A, Alonso M, Rodríguez-Cabello JC, González-Vázquez A, Planell JA, Engel E, Buján J, García-Hondurilla N, Vallet-Regí M. 3D silicon doped hydroxyapatite scaffolds decorated with Elastin-like Recombinamers for bone regenerative medicine. *Acta Biomaterialia*. 2016;45:349-56. IF: 6.008. Article.
- Díez-Martínez R, García-Fernández E, Manzano M, Martínez Á, Domenech M, Vallet-Regí M, García P. Auranofin-loaded nanoparticles as a new therapeutic tool to fight streptococcal infections. *Scientific Reports*. 2016;6:19525. IF: 5.228. Article.
- Paris JL, Torre P, Manzano M, Cabañas MV, Flores AI, Vallet-Regí M. Decidua-derived mesenchymal stem cells as carriers of mesoporous silica nanoparticles. In vitro and in vivo evaluation on mammary tumors. *Acta Biomaterialia*. 2016;33:275-82. IF: 6.008. Article.
- Guisasola E, Baeza A, Talelli M, Arcos D, Vallet-Regí M. Design of thermoresponsive polymeric gates with opposite controlled release behaviors. *RSC Advances*. 2016;6:42510-6. IF: 3.289. Article.
- Torres-Rodríguez C, Portolés MT, Matesanz MC, Linares J, Feito MJ, Izquierdo-Barba I, Esbrit P, Vallet-Regí M. Effects of bleaching on osteoclast activity and their modulation by osteostatin and fibroblast growth factor 2. *Journal of Colloid and Interface Science*. 2016;461:285-91. IF: 3.782. Article.
- Feito MJ, Serrano MC, Onaderra M, Matesanz MC, Sanchez-Salcedo S, Arcos D, Vallet-Regí M, Portolés MT. Effects of immobilized VEGF on endothelial progenitor cells cultured on silicon substituted and nanocrystalline hydroxyapatites. *RSC Advances*. 2016;6:92586-95. IF: 3.289. Article.
- Linares J, Fernandez AB, Feito MJ, Matesanz MC, Sanchez-Salcedo S, Arcos D, Vallet-Regí M, Rojo JM, Portolés MT. Effects of nanocrystalline hydroxyapatites on macrophage polarization. *Journal of Materials Chemistry B*. 2016;4:1951-9. IF: 4.872. Article.
- Cortés-Gil R, Ruiz-González ML, González-Merchante D, Alonso JM, Hernando A, Trasobares S, Vallet-Regí M, Rojo JM, González-Calbet JM. Experimental Evidence of the Origin of Nanophase Separation in Low Hole-Doped Colossal Magnetoresistant Manganites. *Nano Letters*. 2016;16:760-5. IF: 13.779. Article.
- Salinas AJ, Vallet-Regí M. Glasses in bone regeneration: A multiscale issue. *Journal of Non-Crystalline Solids*. 2016;432:9-14. IF: 1.825. Article.
- Martínez-Carmona M, Colilla M, Ruiz-González ML, Gonzalez-Calbet JM, Vallet-Regí M. High resolution transmission electron microscopy: A key tool to understand drug release from mesoporous matrices. *Microporous and Mesoporous Materials*. 2016;225:399-410. IF: 3.349. Article.
- Gómez-Cerezo N, Sánchez-Salcedo S, Izquierdo-Barba I, Arcos D, Vallet-Regí M. In vitro colonization of stratified bioactive scaffolds by pre-osteoblast cells. *Acta Biomaterialia*. 2016;44:73-84. IF: 6.008. Article.
- Ardura JA, Portal-Núñez S, Lozano D, Gutiérrez-Rojas I, Sánchez-Salcedo S, López-Herradón A, Mulero F, Villanueva-Peña Carrillo ML, Vallet-Regí M, Esbrit P. Local delivery of parathyroid hormone-related protein-derived peptides coated onto a hydroxyapatite-based implant enhances bone regeneration in old and diabetic rats. *Journal of Biomedical Materials Research Part A*. 2016;104:2060-70. IF: 3.263. Article.
- Casarrubios L, Matesanz MC, Sánchez-Salcedo S, Arcos D, Vallet-Regí M, Portolés MT. Nanocrystallinity effects on osteoblast and osteoclast response to silicon substituted hydroxyapatite. *Journal of Colloid and Interface Science*. 2016;482:112-20. IF: 3.782. Article.
- Martínez-Carmona M, Lozano D, Colilla M, Vallet-Regí M. Selective topotecan delivery to cancer cells by targeted pH-sensitive mesoporous silica nanoparticles. *RSC Advances*. 2016;6:50923-32. IF: 3.289. Article.
- Turdean-Ionescu C, Stevensson B, Izquierdo-Barba I, Garcia A, Arcos D, Vallet-Regí M, Eden M. Surface Reactions of Mesoporous Bioactive Glasses Monitored by Solid-State NMR: Concentration Effects in Simulated Body Fluid. *Journal of Physical Chemistry C*. 2016;120:4961-74. IF: 4.509. Article.
- Rodriguez-Palomo A, Monopoli D, Afonso H, Izquierdo-Barba I, Vallet-Regí M. Surface zwitterionization of customized 3D Ti6Al4V scaffolds: a promising alternative to eradicate bone infection. *Journal of Materials Chemistry B*. 2016;4:4356-65. IF: 4.872. Article.
- Sanchez-Salcedo S, Vila M, Diaz A, Acosta C, Barton I, Escobar A, Vallet-Regí M. Synthesis of HA/beta-TCP bioceramic foams from natural products. *Journal of Sol-Gel Science and Technology*. 2016;79:160-6. IF: 1.473. Article.
- Vallet-Regí M, Salinas AJ, Arcos D. Tailoring the Structure of Bioactive Glasses: From the Nanoscale to Macroporous Scaffolds. *International Journal of Applied Glass Science*. 2016;7:195-205. IF: 1.843. Article.
- Gonçalves EM, Oliveira FJ, Silva RF, Neto MA, Fernandes MH, Amaral M, Vallet-Regí M, Vila M. Three-dimensional printed PCL-hydroxyapatite scaffolds filled with CNTs for bone cell growth stimulation. *Journal of Biomedical Materials Research Part B-Applied Biomaterials*. 2016;104:1210-9. IF: 2.881. Article.
- Izquierdo-Barba I, Colilla M, Vallet-Regí M. Zwitterionic ceramics for biomedical applications. *Acta Biomaterialia*. 2016;40:201-11. IF: 6.008. Article.
- Baeza A, Manzano M, Colilla M, Vallet-Regí M. Recent advances in mesoporous silica nanoparticles for antitumor therapy: our contribution. *Biomaterials Science*. 2016;4:803-13. IF: 3.614. Review.

#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Marina Martínez Carmona  
**Title:** Nanomateriales de sílice mesoestructurada: aplicación en infección y cáncer.  
**Director/s:** Montserrat Colilla Nieto  
**Date Defended:** 30/09/2016  
**University:** Universidad Complutense de Madrid

- **Candidate:** Eduardo Guisasola Cal  
**Title:** Nanotransportadores basados en sílice mesoporosa para el tratamiento antitumoral  
**Director/s:** Alejandro Baeza García, Daniel Arcos Navarrete  
**Date Defended:** 20/10/2016  
**University:** Universidad Complutense de Madrid

#### PRIZES AND DISTINCTIONS

- Prof. Vallet-Regí: Fundación Lilly Distinguished Career Award in Chemistry. 31 October 2016.
- Prof. Vallet-Regí was appointed member of the 1k Club of the journal Chemistry of Materials (IF = 9.4) and had an editorial in her honor: "Solving Drug Delivery by Drawing from Two Different Fields: Materials Chemistry and Pharmacy". 8 March 2016.

- The article "Mesoporous Silica Nanoparticles for the Design of Smart Delivery Nanodevices" (Montserrat Colilla, Blanca González y María Vallet-Regí) was among the 10 most downloaded papers from Biomateriales Científicos April-June 2016.

# BONE METABOLISM, DIABETES, AND NUTRITION

## RESEARCH GROUP MEMBERS

### GROUP DIRECTOR

Hawkins Carranza, Federico Gilberto  
Martínez Díaz-Guerra, Guillermo

García Fernández, Elena  
Guadalix Iglesias, Sonsoles  
León Sanz, Miguel

Rodríguez Jiménez, Celestino  
Serraclará Pla, Alicia  
Valero Zanuy, M<sup>a</sup> Ángeles

### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	1
<b>TOTAL</b>		<b>2</b>

- Title: Estudio de la microarquitectura ósea en postrasplantados hepáticos con el método no invasivo de TBS (score trabecular óseo). Valoración del riesgo de fractura.  
Principal Investigator: Federico Gilberto Hawkins Carranza  
Project No.: FIMM 2014/0093  
Funding Body: Fundación Mutua Madrileña  
Start date: 13/11/2014  
End date: 12/11/2017
- Title: Impacto de la sarcopenia sobre la morbilidad postoperatoria en los pacientes con cáncer esofágico, gástrico y pacreatico.  
Principal Investigator: Miguel León Sanz  
Funding Body: Abbott Laboratories, S.A.  
Start date: 30/11/2016  
End date: 29/11/2019

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	8	31.599
<b>Total</b>	<b>8</b>	<b>31.599</b>

- German Diaz M, Moreno Villares JM, Gomis Munoz P, Leon Sanz M. Bactericide and antibiotic lock therapy in pediatric patients with home parenteral nutrition. Update. Nutricion Hospitalaria. 2016;33:771-81. IF: 1.497. Article.
- Dauber A, Muñoz-Calvo MT, Barrios V, Domené HM, Kloverpris S, Serra-Juhé C, Desikan V, Pozo J, Muzumdar R, Martos-Moreno GÁ, Hawkins F, Jasper HG, Conover CA, Frystyk J, Yakar S, Hwa V, Chowen JA, Osvig C, Rosenfeld RG, Pérez-Jurado LA, Argente J. Mutations in pregnancy-associated plasma protein A2 cause short stature due to low IGF-I availability. EMBO Molecular Medicine. 2016;8:363-74. IF: 9.547. Article.
- Planas M, Álvarez-Hernández J, León-Sanz M, Celaya-Pérez S, Araujo K, García de Lorenzo A; PREDyCES® researchers. Prevalence of hospital malnutrition in cancer patients: a sub-analysis of the PREDyCESA (R) study. Supportive Care in Cancer. 2016;24:429-35. IF: 2.535. Article.
- Allo MG, García Fernández E, Martínez Díaz-Guerra G, Valero Zanuy MÁ, Pérez Zapata A, de la Cruz Vigo F, Hawkins Carranza F. Recalcitrant hypocalcaemia in a patient with post-thyroidectomy hypoparathyroidism and Roux-en-Y gastric bypass. Obesity Research & Clinical Practice. 2016;10:344-7. IF: 2.094. Article.
- Martínez-Díaz-Guerra G, Guadalix S, Aramendi M, Librizzi S, García E, Jiménez C, Hawkins F. Serum Levels of Osteocalcin and Insulin Resistance in Patients with Impaired Glucose Tolerance or New-Onset Diabetes Mellitus After Liver Transplantation. Hormone and Metabolic Research. 2016;48:325-30. IF: 2.029. Article.
- Webb SM, Puig-Domingo M, Villabona C, Muñoz-Torres M, Marazuela M, Fernández D, Martínez G, Jódar E, Mangas MA, Perulero N, Badia X. Validation of PHPQoL, a Disease-Specific Quality-of-Life Questionnaire for Patients With Primary Hyperparathyroidism. Journal of Clinical Endocrinology & Metabolism. 2016;101:1571-8. IF: 5.531. Article.
- Martinez Diaz-Guerra G, Aramendi Ramos M. Vitamin D deficiency: are we identifying it properly? Revista de Osteoporosis y Metabolismo Mineral. 2016;8:53-4. IF: N/A. Editorial Material.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



## PRIZES AND DISTINCTIONS

- National prize of the Royal Academy of Medicine and appointment of the corresponding member: Prof. Federico Gilberto Hawkins Carranza. 12 December 2016.
- Henning Aderson Prize. From the European Society for Paediatric Endocrinology to the best abstract in clinical science: A new syndrome associated with mutations in the gene PAPP2, 1-3 October 2016.

## PERINATAL MEDICINE



## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Noncompetitive	Various	1
<b>TOTAL</b>		<b>3</b>

- Title: Desarrollo de métodos predictivos basados en la integración de factores prenatales y postnatales para la detección de neurodesarrollo anómalo en cardiopatías congénitas.  
Principal Investigator: Alberto Galindo Izquierdo  
Project No.: PI13/02405  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016, extended to 30/06/2017
- Title: Incorporación clínica de los biomarcadores de angiogénesis (ratio sFlt-1/PIGF) para la detección precoz y el seguimiento de la preeclampsia.  
Principal Investigator: Alberto Galindo Izquierdo  
Funding Body: Roche Diagnostics, S.L.U.  
Start date: 01/01/2015  
End date: 31/12/2016
- Title: Introducción clínica del test Elecsys sFlt-1/PIGF para el diagnóstico precoz y el seguimiento de la preeclampsia.  
Principal Investigator: Alberto Galindo Izquierdo  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016, extended to 31/12/2017

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	7	15.155
<b>Total</b>	<b>7</b>	<b>15.155</b>

- Herraiz I, Simón E, Gómez-Arriaga PI, Quezada MS, García-Burguillo A, López-Jiménez EA, Galindo A. Abstracts of the 26th World Congress on Ultrasound in Obstetrics and Gynecology, Rome, Italy, 24-28 September 2016. *Ultrasound in Obstetrics & Gynecology*. 2016;48(Suppl 1):88. IF: 4.254. Article.
  - González-Villalaín C, Herraiz I, Bermejo R, Quezada MS, Reyes K, Galindo A. Abstracts of the 26th World Congress on Ultrasound in Obstetrics and Gynecology, Rome, Italy, 24-28 September 2016. *Ultrasound in Obstetrics & Gynecology*. 2016;48(Suppl 1):82. IF: 4.254. Article.
  - Granados MA, Albert L, Toral B. Echocardiographic two-dimensional view of the pulmonary valve in infants: the high transsternal view. *Cardiology in the Young*. 2016; 26:790-2. IF: 0.825. Article.
  - González-López MT, Pérez-Caballero-Martínez R, Granados-Ruiz MÁ, García-Torres E, Álvarez-García-Rovés R, Gil-Villanueva N, Camino-López M, Gil-Jaurena JM. End-stage ischemic heart failure and Williams-Beuren syndrome: A unique scenario for pediatric heart transplantation. *Pediatric Transplantation*. 2016;20:472-6. IF: 1.284. Article.
  - Burke Ó, Benton S, Szafranski P, von Dadelszen P, Buhimschi SC, Cetin I, Chappell L, Figueras F, Galindo A, Herraiz I, Holzman C, Hubel C, Knudsen U, Kronborg C, Laivuori H, Lapaire O, McElrath T, Moertl M, Myers J, Ness RB1, Oliveira L, Olson G, Poston L, Ris-Stalpers C, Roberts JM, Schalekamp-Timmermans S, Schlembach D, Steegers E, Stepan H, Tsatsaris V, van der Post JA, Verloren S,
- Villa PM, Williams D, Zeisler H, Redman CW, Staff AC; Global Pregnancy Collaboration. Extending the scope of pooled analyses of individual patient biomarker data from heterogeneous laboratory platforms and cohorts using merging algorithms. *Pregnancy Hypertension*. 2016;6:53-9. IF: 1.308. Article.
- Aguilar Jimenez JM, Garcia Torres E, Mendoza Soto A, Granados Ruiz MA, Palacios Cuesta A, Comas Illas JV. Management of the late presenters with transposition of great arteries and intact ventricular septum. A case report. *Cirugia Cardiovascular*. 2016;23:101-3. IF: N/A. Article.
- Domínguez Manzano P, Mendoza Soto A, Román Barba V, Moreno Galdó A, Galindo Izquierdo A. Pulmonary Arterial Hypertension and Neonatal Arterial Switch Surgery for Correction of Transposition of the Great Arteries. *Revista Española de Cardiología (Engl Ed)*. 2016;69:836-41. IF: 4.596. Article.
- Soriano-Ramos M, Martínez-Del Val E, Negreira Cepeda S, González-Tomé MI, Cedena Romero P, Fernández-Cooke E, Albert de la Torre L, Blázquez-Gamero D. Risk of coronary artery involvement in Kawasaki disease. *Archivos Argentinos de Pediatría*. 2016;114:107-13. IF: 0.530. Article.
- Domínguez-Manzano P, Mendoza A, Herraiz I, Escribano D, Román V, Aguilar JM, Galindo A. Transposition of the Great Arteries in Fetal Life: Accuracy of Diagnosis and Short-Term Outcome. *Fetal Diagnosis and Therapy*. 2016; 40:268-76. IF: 2.700. Article.

## THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** David Escribano Abad  
**Title:** Valor del estudio de las anomalías cromosómicas en fetos con cardiopatía congénita: factores de riesgo e importancia pronóstica.  
**Director/s:** Alberto Galindo Izquierdo  
**Date Defended:** 25/01/2016  
**University:** Universidad Complutense de Madrid

- **Candidate:** Mª José Gómez Rodríguez  
**Title:** Evolución de los criterios de selección de gestantes en riesgo de cromosomopatía fetal. Papel de la edad materna.  
**Director/s:** Alberto Galindo Izquierdo  
**Date Defended:** 08/02/2016  
**University:** Universidad Complutense de Madrid

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# CLINICAL NEPHROLOGY

## GROUP DIRECTOR

Praga Terente, Manuel

## RESEARCH

### GROUP MEMBERS

Caro Espada, Paula Jara  
Casal García, M<sup>a</sup> Cruz  
Cavero Escribano, Teresa  
García Martín, Florencio  
González Monte, Esther

Gutiérrez Martínez, Eduardo  
Martín López, Luis  
Morales Ruiz, Enrique  
Sevillano Prieto, Ángel Manuel

Start date: 01/01/2016  
End date: 31/12/2018

- Title: STARMEN: Multicenter and open-label controlled randomized trial to evaluate the efficacy of sequential treatment with tacrolimus-rituximab versus steroids plus cyclophosphamide in patients with primary membranous.

Principal Investigator: Manuel Praga Terente  
Funding Body: European Renal Association-European Dialysis Transplant Association  
Start date: 11/05/2016  
End date: 10/05/2019

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	15	49.094
Reviews	4	15.841
<b>Total</b>	<b>19</b>	<b>64.935</b>

remission of nephrotic syndrome in a patient with familial mediterranean fever and amyloidosis. *Nefrologia*. 2016; 36:63-6. IF: 1.207. Article.

- De la Rosa Kehrmann F, García González L, Pamplona Casamayor M, Rodríguez Antolín A, Duarte Ojeda J, Villacampa Aubá F, Medina Polo J, González Monte E, Serrano A, Passas Martínez J. Association entre la perte précoce de la greffe et la présence des anticorps IgA préformés dirigés contre  $\beta$ 2 glycoprotéine I. *Progres en Urologie*. 2016;26:713. IF: 0.562. Article.

- Rodríguez-Nóvoa S, García-Samaniego J, Prieto M, Calleja JL, Pascasio JM, Delgado Blanco M, Crespo J, Buti M, Bonet Vidal ML, Arenas Ruiz Tapiador J, Fernández-Rodríguez C, Solá R, Fraga E, González Diéguez L, Núñez O, Praga M, Del Pino-Montes J, Romero-Gómez M, Morillas R, Diago M, Castro Á; MENTE Study Group.

Altered Underlying Renal Tubular Function in Patients With Chronic Hepatitis B Receiving Nucleos(t)ide Analogs in a Real-World Setting The MENTE Study. *Journal of Clinical Gastroenterology*. 2016;50:779-89. IF: 3.163. Article.

- Sevillano ÁM, Hernandez E, Gonzalez E, Mateo I, Gutierrez E, Morales E, Praga M. Anakinra induces complete

Villacorta J, Diaz-Crespo F, Acevedo M, Cavero T, Guerrero C, Praga M, Fernandez-Juarez G. Circulating C3 levels predict renal and global outcome in patients with

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	Fundación SENEFRO	1
Noncompetitive	Various	1
<b>Total</b>		<b>5</b>

- Title: Tratamiento secuencial con tacrolimus-rituximab versus esteroides más ciclofosfamida en la nefropatía membranosa primaria.  
Principal Investigator: Manuel Praga Terente  
Project No.: ICI14/00350  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Riesgo cardiovascular y nefropatía crónica del injerto en receptores de trasplante renal con autoanticuerpos IGA Anti Apolipoproteína H en el pretrasplante.  
Principal Investigator: Esther González Monte  
Project No.: PI12/00108  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 30/06/2017
- Title: Terapia secuencial con tacrolimus y rituximab en la nefropatía membranosa primaria.  
Principal Investigator: Manuel Praga Terente  
Project No.: PI13/02495  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014
- Title: Efectos de la pérdida de peso sobre la función renal en pacientes obesos con enfermedad renal.  
Principal Investigator: Enrique Morales Ruiz  
Funding Body: Fundación SENEFRO

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- renal vasculitis. *Clinical Rheumatology*. 2016;35:2733-40. IF: 2.042. Article.
- Inker LA, Mondal H, Greene T, Masaschi T, Locatelli F, Schena FP, Katafuchi R, Appel GB, Maes BD, Li PK, Praga M, Del Vecchio L, Andrucci S, Manno C, Gutierrez E, Mercer A, Carroll KJ, Schmid CH, Levey AS. Early Change in Urine Protein as a Surrogate End Point in Studies of IgA Nephropathy: An Individual-Patient Meta-analysis. *American Journal of Kidney Diseases*. 2016;68:392-401. IF: 6.269. Article.
  - Gómez-Cibeira E, Ivanovic-Barbeito Y, Gutiérrez-Martínez E, Morales E, Abradelo M, Hilario A, Ramos A, Ruiz-Morales J, Villarejo-Galende A. Eculizumab-Related Progressive Multifocal Leukoencephalopathy. *Neurology*. 2016;86:399-400. IF: 8.166. Article.
  - Pérez-Jacoiste Asín MA, Fernández-Ruiz M, López-Medrano F, Aquilino C, González E, Ruiz-Merlo T, Gutiérrez E, San Juan R, Paz-Artal E, Andrés A, Aguado JM. Monitoring of intracellular adenosine triphosphate in CD4(+) T cells to predict the occurrence of cytomegalovirus disease in kidney transplant recipients. *Transplant International*. 2016;29:1094-105. IF: 2.835. Article.
  - Dipalma T, Fernández-Ruiz M, Praga M, Polanco N, González E, Gutiérrez-Solis E, Gutiérrez E, Andrés A. Pre-transplant dialysis modality does not influence short-or long-term outcome in kidney transplant recipients: analysis of paired kidneys from the same deceased donor. *Clinical Transplantation*. 2016;30:1097-107. IF: 1.844. Article.
  - Origüen J, Fernández-Ruiz M, López-Medrano F, Ruiz-Merlo T, González E, Morales JM, Fiorante S, San-Juan R, Villa J, Orellana MÁ, Andrés A, Aguado JM. Progressive increase of resistance in Enterobacteriaceae urinary isolates from kidney transplant recipients over the past decade: narrowing of the therapeutic options. *Transplant Infectious Disease*. 2016;18:575-84. IF: 1.459. Article.
  - Geetha D, Hruskova Z, Segelmark M, Hogan J, Morgan MD, Cavero T, Eriksson P, Seo P, Manno RL, Dale J, Harper L, Tesar V, Jayne DR. Rituximab for treatment of severe renal disease in ANCA associated vasculitis. *Journal of Nephrology*. 2016;29:195-201. IF: 1.352. Article.
  - Serrano M, Cabrera-Marante O, Martínez-Flores JA, Morales P, Pérez D, Mora S, García F, González E, Paz-Artal E, Morales JM, Serrano A. Study of beta(2)-Glycoprotein I Polymorphisms in Patients With Chronic Renal Failure as a Predisposing Factor for the Development of Anti-beta(2)-Glycoprotein I Auto-Antibodies. *Transplantation Proceedings*. 2016;48:2876-9. IF: 0.867. Article.
  - Barbour SJ, Espino-Hernandez G, Reich HN, Coppo R, Roberts IS, Feehally J, Herzenberg AM, Catran DC; Oxford Derivation, North American Validation and VALIGA Consortia; Oxford Derivation North American Validation and VALIGA Consortia. The MEST score provides earlier risk prediction in IgA nephropathy. *Kidney International*. 2016;89:167-75. IF: 7.683. Article.
  - Diaz-Crespo F, Villacorta J, Acevedo M, Cavero T, Guerrero C, García Díaz E, Orradre JL, Martinez MA, Praga M, Fernandez-Juarez G. The predictive value of kidney biopsy in renal vasculitis: a multicenter cohort study. *Human Pathology*. 2016;52:119-27. IF: 2.791. Article.
  - Fernandez-Juarez G, Villacorta J, Ruiz-Roso G, Panizo N, Martinez-Marín I, Marco H, Arrizabalaga P, Díaz M, Perez-Gómez V, Vaca M, Rodríguez E, Cobelo C, Fernandez L, Avila A, Praga M, Quereda C, Ortiz A. Therapeutic variability in adult minimal change disease and focal segmental glomerulosclerosis. *Clinical Kidney Journal*. 2016;9:381-6. IF: N/A. Article.
  - Feehally J, Coppo R, Troyanov S, Bellur SS, Catran D, Cook T, Roberts IS, Verhave JC, Camilla R, Vergano L, Egido J, Wiecek A, Karkoszka H, Tesar V, Maixnerova D, Ots-Rosenberg M, Quaglia M, Rollino C, Magistroni R, Cusinato S, Cravero R, Peruzzi L, Lundberg S, Gesualdo L, Cancarini G, Feriozzi S, Ferrario F; VALIGA study of ERA-EDTA Immunonephrology Working Group. Tonsillectomy in a European Cohort of 1,147 Patients with IgA Nephropathy. *Nephron*. 2016;132:15-24. IF: 0.000. Article.
  - Cremer A, Amraoui F, Lip GY, Morales E, Rubin S, Segura J, Van den Born BJ, Gosse P. From malignant hypertension to hypertension-MOD: a modern definition for an old but still dangerous emergency. *Journal of Human Hypertension*. 2016;30:463-6. IF: 2.833. Review.
  - Moreno JA, Yuste C, Gutiérrez E, Sevillano ÁM, Rubio-Navarro A, Amaro-Villalobos JM, Praga M, Egido J. Haematuria as a risk factor for chronic kidney disease progression in glomerular diseases: A review. *Pediatric Nephrology*. 2016;31:523-33. IF: 2.338. Review.
  - D'Agati VD, Chagnac A, de Vries AP, Levi M, Porrini E, Herman-Edelstein M, Praga M. Obesity-related glomerulopathy: clinical and pathologic characteristics and pathogenesis. *Nature Reviews Nephrology*. 2016;12:453-71. IF: 9.463. Review.
  - Egido J, Martínez-Castelao A, Bover J, Praga M, Torregrosa JV, Fernández-Giráldez E, Solozábal C. The pleiotropic effects of paricalcitol: Beyond bone-mineral metabolism. *Nefrología*. 2016;36:10-8. IF: 1.207. Review.
  - Carreño-Tarragona G, Morales E, Jiménez-Herrero MC, Cortés-Fornieles E, Gutierrez E, Praga M. Lupus anticoagulant-hypoprothrombinemia syndrome: A rare association in systemic lupus erythematosus. *Nefrología*. 2016;36:186. IF: 1.207. Letter.
  - Martín Navarro JA, Pedraza Ceón LA, de Pablos Martín MP, González Monte E, Polanco Fernández N, Gutiérrez Sánchez MJ, Petkov Stoyanov V. Treatment with sodium thiosulfate in calciphylaxis of topical active renal transplant patient. *Nefrología*. 2016;36:579-81. IF: 1.207. Letter.

#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Esther González Monte  
**Title:** Estudio multicéntrico de nefritis intersticial aguda por fármacos: características clínicas e influencia del tratamiento esteroideo.  
**Director/s:** Manuel Praga Terente  
**Date Defended:** 19/01/2016  
**University:** Universidad Complutense de Madrid
- **Candidate:** Nayara Panizo González  
**Title:** Análisis de la composición corporal por bioimpedancia electroscópica en pacientes trasplantados renales, factores relacionados con la sobrehidratación y el exceso de grasa e impacto clínico de los mismos.  
**Director/s:** Manuel Praga Terente  
**Date Defended:** 01/02/2016  
**University:** Universidad Complutense de Madrid

#### PRIZES AND DISTINCTIONS

- Íñigo Álvarez de Toledo Prize for Clinical Research in Nephrology, 2016, for "La eficacia de los regímenes diuréticos en la ERC". Enrique Morales, Jara Caro, Manuel Praga.

# PULMONARY SURFACTANT AND RESPIRATORY DISEASES

## GROUP DIRECTOR

Pérez Gil, Jesús

## RESEARCH

### GROUP MEMBERS

Aranda Serrano, Elena  
Arroyo Rodríguez, Raquel  
Castillo Sánchez, José Carlos  
Cruz Rodríguez, Antonio  
Echaide Torreguitar, Mercedes

García Álvarez, Begoña  
Hidalgo Román, Alberto  
Martínez Calle, Marta  
Olmeda Lozano, Bárbara  
Roldán López, Nuria

## ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: EXPLO(R+T). El marco biotecnológico de la lanzadera surfactante pulmonar, guardián de la interfase organismo/ambiente.

Principal Investigator: Jesús Pérez Gil

Project No.: BIO2015-67930-R

Funding Body: MINECO/FEDER, UE

Start date: 2016

End date: 2018

- Title: Characterization of structure and lipid-protein interactions of recombinant pulmonary surfactant proteins.

Principal Investigator: Jesús Pérez Gil

Funding Body: Airway Therapeutics

Start date: 2014

End date: 2016

- Title: Structure and interfacial spreading behaviour of recombinant pulmonary surfactant proteins.

Principal Investigator: Jesús Pérez Gil

Funding Body: Airway Therapeutics

Start date: 2016

End date: 2017

- Title: In vitro characterization of vehiculization and resistance to inactivation properties of a clinical surfactant.

Principal Investigator: Jesús Pérez Gil

Funding Body: Chiesi Farmaceutici, S.p.A

Start date: 2015

End date: 2016

- Title: Performance and structure-function determinants of a clinical surfactant.

Principal Investigator: Jesús Pérez Gil

Funding Body: Chiesi Farmaceutici, S.p.A

Start date: 2016

End date: 2017

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	5	21.613
Total	5	21.613

- Hobi N, Giolai M, Olmeda B, Miklavc P, Felder E, Walther P, Dietl P, Frick M, Pérez-Gil J, Haller T. A small key unlocks a heavy door. The essential function of the small hydrophobic proteins SP-B and SP-C to trigger adsorption of pulmonary surfactant lamellar bodies. *Biochimica et Biophysica Acta-Molecular Cell Research.* 2016; 1863:2124-34. IF: 5.128. Article.
- Roldan N, Nyholm TK, Slotte JP, Pérez-Gil J, García-Álvarez B. Effect of Lung Surfactant Protein SP-C and SP-C-Promoted Membrane Fragmentation on Cholesterol Dynamics. *Biophysical Journal.* 2016;111:1703-13. IF: 3.632. Article.
- Huarte N, Carraville P, Cruz A, Lorizate M, Nieto-Garai JA, Kräusslich HG, Pérez-Gil J, Requejo-Isidro J, Nieva JL. Functional organization of the HIV lipid envelope. *Scientific Reports.* 2016;6:34190. IF: 5.228. Article.
- Lopez-Rodriguez E, Pascual A, Arroyo R, Floros J, Perez-Gil J. Human Pulmonary Surfactant Protein SP-A1 Provides Maximal Efficiency of Lung Interfacial Films. *Biophysical Journal.* 2016;111:524-36. IF: 3.632. Article.
- Lopez-Rodriguez JC, Barderas R, Echaide M, Perez-Gil J, Villalba M, Batanero E, Cruz A. Surface Activity as a Crucial Factor of the Biological Actions of Ole e 1, the Main Aeroallergen of Olive Tree (*Olea europaea*) Pollen. *Langmuir.* 2016;32:11055-62. IF: 3.993. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

## **RARE AND GENETIC DISEASES**



**COORDINATOR: MIGUEL ÁNGEL MARTÍN CASANUEVA**

**Rare, Mitochondrial, and  
Neuromuscular Diseases**

**Pathophysiology and  
Mitochondrial Biogenesis**

**Genetics and Inheritance**

**Research on Physical Activity and Health**

**Mitochondrial Membrane Laboratory**

**Porphyria, Haemochromatosis and Anemia**



# RARE, MITOCHONDRIAL, AND NEUROMUSCULAR DISEASES

## GROUP DIRECTOR

Martín Casanueva, Miguel Ángel

## RESEARCH GROUP MEMBERS

Arenas Barbero, Joaquín  
 Atencia Cibreiro, M<sup>a</sup> Gabriela  
 Blázquez Encinar, Alberto  
 Borrego Hernández, Daniel  
 del Hoyo Gordillo, M<sup>a</sup> del Pilar  
 Delmiro Magdalena, Aitor  
 Domínguez González, Cristina  
 Esteban Pérez, Jesús  
 Fiúza Luces, Carmen  
 García Bartolomé, Alberto  
 García Redondo, Alberto  
 García Silva, M<sup>a</sup> Teresa  
 García-Consuegra Galiana, Inés  
 González Quintana, Adrián

Jiménez García, Sara  
 Juárez Rufián, Alexandra  
 Lobo Jarne, Teresa  
 Martín Hernández, Elena  
 Martínez Azorín, Francisco  
 Mittelbrunn Herrero, María  
 Morán Bermejo, M<sup>a</sup> Jesús  
 Peñas Pita Da Veiga, Ana  
 Pérez Pérez, Rafael  
 Quijada Fraile, M<sup>a</sup> del Pilar  
 Rubio Muñoz, Juan Carlos  
 Rufián Vázquez, Laura  
 Serrano Lorenzo, Pablo  
 Ugalde Bilbao, Cristina

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	University of Miami	1
Competitive	Commission of the European Communities	1
Competitive	ISCIII	10
Competitive	Otros	3
<b>TOTAL</b>		<b>15</b>

- Title: The biosynthetic pathway of mitochondrial respirationes.  
 Principal Investigator: Cristina Ugalde Bilbao  
 Project No.: 2014/0080  
 Funding Body: University of Miami  
 Start date: 01/05/2014  
 End date: 31/01/2018
- Title: EUROMAC - European registry for McArdle disease and other related muscle glycogenoses.  
 Principal Investigator: Miguel Ángel Martín Casanueva  
 Project No.: 2013/0063  
 Funding Body: Commission of the European Communities  
 Start date: 01/03/2013  
 End date: 30/06/2016, extended to 30/11/2016
- Title: A precise approach for nucleoside-based therapy of neuromuscular disorders with defects in mitochondrial DNA.  
 Principal Investigator: Miguel Ángel Martín Casanueva  
 Project No.: PMP15/00025  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2016  
 End date: 31/12/2019
- Title: Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención: parte 1: variabilidad genética y función mitocondrial.  
 Principal Investigator: Miguel Ángel Martín Casanueva  
 Project No.: PI15/00431  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2016  
 End date: 31/12/2018
- Title: Enfermedad de McArdle (Glucogenosis Tipo V): nuevas aproximaciones diagnósticas, fisiopatológicas y terapéuticas.  
 Principal Investigator: Joaquín Arenas Barbero  
 Project No.: PI14/00903  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2015  
 End date: 31/12/2017
- Title: Estudio de biomarcadores en el continuo patológico existente entre la esclerosis lateral amiotrófica (ELA) y la degeneración lobular frontotemporal (DLFT)-I.  
 Principal Investigator: Alberto García Redondo  
 Project No.: PI14/00088  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2015  
 End date: 31/12/2017
- Title: El entrenamiento como inductor/modulador de mioquinas y neurotinas en enfermedades mitocondriales. Una estrategia terapéutica.  
 Principal Investigator: M<sup>a</sup> Jesús Morán Bermejo  
 Project No.: PI14/01085  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2015  
 End date: 31/12/2017
- Title: Búsqueda y caracterización de biomarcadores para enfermedades mitocondriales asociadas a déficits enzimáticos del sistema OXPHOS.  
 Principal Investigator: Cristina Ugalde Bilbao  
 Project No.: PI14/00209  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2015  
 End date: 31/12/2017
- Title: Diagnóstico genético y farmacogenómica de enfermedades mitocondriales mediante secuenciación masiva y complementación funcional.  
 Principal Investigator: Francisco Martínez Azorín  
 Project No.: PI14/00790  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2015  
 End date: 31/12/2017
- Title: Medicina mitocondrial: configuración de una estrategia para la identificación genético-molecular de pacientes Oxphos.  
 Principal Investigator: Miguel Ángel Martín Casanueva  
 Project No.: PI12/01683  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2013  
 End date: 31/12/2015, extended to 31/03/2017
- Title: Identificación y validación de biomarcadores de en-

fermedades mitocondriales.  
 Principal Investigator: Cristina Ugalde Bilbao  
 Project No.: PI11/00182  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2012  
 End date: 31/01/2015, extended to 31/10/2016

▪ Title: Utilización de exosomas como vehículo para la reparación cardiaca.  
 Principal Investigator: María Mittelbrunn Herrero  
 Project No.: CP14/00219  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 03/11/2015  
 End date: 31/12/2017

▪ Title: Identificación de la causa genético-molecular en pacientes en fenotipos, clínicos, bioquímicos y moleculares de enfermedad mitocondrial del sistema de fosforilación oxidativa (OXPHOS).  
 Principal Investigator: Miguel Ángel Martín Casanueva  
 Funding Body: Asociación de Enfermos de Patologías Mi-

tocondriales  
 Start date: 29/11/2016  
 End date: 28/11/2018

▪ Title: Búsqueda de biomarcadores para el seguimiento de la ELA y la DFT.  
 Principal Investigator: Alberto García Redondo  
 Funding Body: Asociación ayuda enfermos siempre adelante, Roche Diagnostics GMBH  
 Start date: 05/11/2015  
 End date: 04/11/2018

▪ Title: Puesta a punto de un algoritmo molecular diagnóstico en pacientes con esclerosis lateral amiotrófica y degeneración lobular frontotemporal.  
 Principal Investigator: Jesús Esteban Pérez  
 Funding Body: Asociación Española Esclerosis Lateral Amiotrófica  
 Start date: 03/02/2015  
 End date: 02/02/2016, extended to 31/08/2017

- Emanuele E, Bertona M, Pareja-Galeano H, Fiuza-Luces C, Morales JS, Sanchis-Gomar F, Lucia A. Baicalin supplementation reduces serum biomarkers of skeletal muscle wasting and may protect against lean body mass reduction in cancer patients: Results from a pilot open-label study. *Neuroendocrinology Letters*. 2016;37:213-6. IF: 0.946. Article.
- Pareja-Galeano H, Mayero S, Perales M, Garatachea N, Santos-Lozano A, Fiuza-Luces C, Emanuele E, Gálvez BG, Sanchis-Gomar F, Lucia A. Biological Rationale for Regular Physical Exercise as an Effective Intervention for the Prevention and Treatment of Depressive Disorders. *Current Pharmaceutical Design*. 2016;22:3764-75. IF: 3.052. Article.
- Williams KL, Topp S, Yang S, Smith B, Fifita JA, Warraich ST, Zhang KY, Farrawell N, Vance C, Hu X, Chesi A, Leblond CS, Lee A, Rayner SL, Sundaramoorthy V, Dobson-Stone C, Molloy MP, van Blitterswijk M, Dickson DW, Petersen RC, Graff-Radford NR, Boeve BF, Murray ME, Pottier C, Don E, Winnick C, McCann EP, Hogan A, Daoud H, Levert A, Dion PA, Mitsui J, Ishiura H, Takahashi Y, Goto J, Kost J, Gellera C, Gkazi AS, Miller J, Stockton J, Brooks WS, Boundy K, Polak M, Muñoz-Blanco JL, Esteban-Pérez J, Rábano A, Hardiman O, Morrison KE, Ticozzi N, Silani V, de Belleroche J, Glass JD, Kwok JB, Guillemin GJ, Chung RS, Tsuji S, Brown RH Jr, García-Redondo A, Rademakers R, Landers JE, Gitler AD, Rouleau GA, Cole NJ, Yerbury JJ, Atkin JD, Shaw CE, Nicholson GA, Blair IP. CCNF mutations in amyotrophic lateral sclerosis and frontotemporal dementia. *Nature Communications*. 2016;7:11253. IF: 11.329. Article.
- Benito-León J, Louis ED, Puertas-Martín V, Romero JP, Matarazzo M, Molina-Arjona JA, Domínguez-González C, Sánchez-Ferro Á. Cognitive and neuropsychiatric features of orthostatic tremor: A case-control comparison. *Journal of the Neurological Sciences*. 2016;361:137-43. IF: 2.126. Article.
- Castro-Gago M, Dacruz-Alvarez D, Pintos-Martínez E, Beiras-Iglesias A, Arenas J, Martín MÁ, Martínez-Azorín F. Congenital neurogenic muscular atrophy in megaconial myopathy due to a mutation in CHKB gene. *Brain & Development*. 2016;38:167-72. IF: 1.785. Article.
- Pérez-Pérez R, Lobo-Jarne T, Milenkovic D, Mourier A, Bratic A, García-Bartolomé A, Fernández-Vizarra E, Cadenas S, Delmiro A, García-Consuegra I, Arenas J, Martín MA, Larsson NG, Ugalde C. COX7A2L Is a Mitochondrial Complex III Binding Protein that Stabilizes the III2+IV Supercomplex without Affecting Respirasome Formation. *Cell Reports*. 2016;16:2387-98. IF: 7.870. Article.
- Rodríguez-García ME, Martín-Hernández E, de Aragón AM, García-Silva MT, Quijada-Fraile P, Arenas J, Martín MA, Martínez-Azorín F. First missense mutation outside of SERAC1 lipase domain affecting intracellular cholesterol trafficking. *Neurogenetics*. 2016;17:51-6. IF: 3.426. Article.
- Cruz-Bermúdez A, Vicente-Blanco RJ, Hernández-Sierra R, Montero M, Alvarez J, González Manrique M, Blázquez A, Martín MA, Ayuso C, Garesse R, Fernández-Moreno MA. Functional Characterization of Three Concomitant MtDNA LHON Mutations Shows No Synergistic Effect on Mitochondrial Activity. *PLoS One*. 2016;11(1):e0146816. IF: 3.057. Article.
- Sanchis-Gomar F, Santos-Lozano A, Pareja-Galeano H, Garatachea N, Alis R, Fiuza-Luces C, Morán M, Emanuele E, Lucia A. Galectin-3, osteopontin and successful aging. *Clinical Chemistry and Laboratory Medicine*. 2016;54:873-7. IF: 3.017. Article.
- Nogales-Gadea G, Godfrey R, Santalla A, Coll-Cantí J, Pintos-Morell G, Pinós T, Arenas J, Martín MA, Lucia A. Genes and exercise intolerance: insights from McArdle disease. *Physiological Genomics*. 2016;48:93-100. IF: 2.615. Article.
- Gallego-Villar L, Rivera-Barahona A, Cuevas-Martín C, Guenzel A, Pérez B, Barry MA, Murphy MP, Logan A, Gonzalez-Quintana A, Martín MA, Medina S, Gil-Izquierdo A, Cuevaz JM, Richard E, Desviat LR. In vivo evidence of mitochondrial dysfunction and altered redox homeostasis in a genetic mouse model of propionic acidemia: Implications for the pathophysiology of this disorder. *Free Radical Biology and Medicine*. 2016;96:1-12. IF: 5.784. Article.

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	26	161.862
Reviews	3	11.975
Editorials	3	13.088
<b>Total</b>	<b>32</b>	<b>186.925</b>

- Gallego-Bustos F, Gotea V, Ramos-Amador JT, Rodríguez-Peña R, Gil-Herrera J, Sastre A, Delmiro A, Rai G, Elnitski L, González-Granado LI, Allende LM. A Case of IL-7R Deficiency Caused by a Novel Synonymous Mutation and Implications for Mutation Screening in SCID Diagnosis. *Frontiers in Immunology*. 2016;7:443. IF: 5.695. Article.
- Fiuza-Luces C, Santos-Lozano A, García-Silva MT, Martín-Hernández E, Quijada-Fraile P, Marín-Peiró M, Campos P, Arenas J, Lucía A, Martín MA, Morán M. Assessment of resting energy expenditure in pediatric mitochondrial diseases with indirect calorimetry. *Clinical Nutrition*. 2016;35:1484-9. IF: 4.487. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



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- Fiúza-Luces C, Nogales-Gadea G, García-Consuegra I, Pareja-Galeano H, Rufián-Vázquez L, Pérez LM, Andreu AL, Arenas J, Martín MA, Piñós T, Lucia A, Morán M. Muscle Signaling in Exercise Intolerance: Insights from the McArdle Mouse Model. *Medicine and Science in Sports and Exercise*. 2016;48:1448-58. IF: 4.041. Article.
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- Mancuso R, Martínez-Muriana A, Leiva T, Gregorio D, Ariza L, Morell M, Esteban-Pérez J, García-Redondo A, Calvo AC, Atencia-Cibreiro G, Corfas G, Osta R, Bosch A, Navarro X. Neuregulin-1 promotes functional improvement by enhancing collateral sprouting in SOD1(G93A) ALS mice and after partial muscle denervation. *Neurobiology of Disease*. 2016;95:168-78. IF: 4.856. Article.
- Martín-Hernández E, Rodríguez-García ME, Camacho A, Matilla-Dueñas A, García-Silva MT, Quijada-Fraile P, Corral-Juan M, Tejada-Palacios P, de las Heras RS, Arenas J, Martín MA, Martínez-Azorín F. New ATP8A2 gene mutations associated with a novel syndrome: encephalopathy, intellectual disability, severe hypotonia, chorea and optic atrophy. *Neurogenetics*. 2016;17:259-63. IF: 3.426. Article.
- de Fuenmayor-Fernández de la Hoz CP, Hernández-Laín A, Olivé M, Fernández-Marmiesse A, Domínguez-González C. Novel mutation in TCAP manifesting with asymmetric calves and early-onset joint retractions. *Neuromuscular Disorders*. 2016;26:749-53. IF: 3.107. Article.
- Santos-Lozano A, Pareja-Galeano H, Sanchis-Gomar F, Quindós-Rubial M, Fiúza-Luces C, Cristi-Montero C, Emanuele E, Garatachea N, Lucia A. Physical Activity and Alzheimer Disease: A Protective Association. *Mayo Clinic Proceedings*. 2016;91:999-1020. IF: 5.920. Article.
- Benito-León J, Louis ED, Manzanedo E, Hernández-Tamames JA, Álvarez-Linera J, Molina-Arjona JA, Matarazzo M, Romero JP, Domínguez-González C, Domingo-Santos Á, Sánchez-Ferro Á. Resting state functional MRI reveals abnormal network connectivity in orthostatic tremor. *Medicine*. 2016;95(29):e4310. IF: 2.133. Article.
- Boehm E, Zornoza M, Jourdain AA, Delmiro Magdalena A, García-Consuegra I, Torres Merino R, Orduna A, Martín MA, Martinou JC, De La Fuente MA, Simarro M. Role of FAST Kinase Domains 3 (FASTKD3) in Post-transcriptional Regulation of Mitochondrial Gene Expression. *Journal of Biological Chemistry*. 2016;291:25877. IF: 4.258. Article.
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- García-Consuegra I, Blázquez A, Rubio JC, Arenas J, Ballester-López A, González-Quintana A, Andreu AL, Piñós T, Coll-Cantí J, Lucia A, Nogales-Gadea G, Martín MA. Taking advantage of an old concept, "illegitimate transcription", for a proposed novel method of genetic diagnosis of McArdle disease. *Genetics in Medicine*. 2016;18:1128-35. IF: 7.710. Article.
- Alis R, Santos-Lozano A, Sanchis-Gomar F, Pareja-Galeano H, Fiúza-Luces C, Garatachea N, Lucia A, Emanuele E. Trace elements levels in centenarian 'dodgers'. *Journal of Trace Elements in Medicine and Biology*. 2016;35:103-6. IF: 2.550. Article.
- Pareja-Galeano H, Santos-Lozano A, Morán M, Sanchis-Gomar F, Alis R, Santalla A, San Juan AF, Díez J, Martín MÁ, Arenas J, Lucia A. Xanthine Oxidase Pathway and Muscle Damage. Insights from McArdle Disease. *Current Pharmaceutical Design*. 2016;22:2657-63. IF: 3.052. Article.
- Fiúza-Luces C, Simpson RJ, Ramírez M, Lucia A, Berger NA. Physical function and quality of life in patients with chronic GvHD: a summary of preclinical and clinical studies and a call for exercise intervention trials in patients. *Bone Marrow Transplantation*. 2016;51:13-26. IF: 3.636. Review.
- Santos-Lozano A, Morales-Gonzalez A, Sanchis-Gomar F, Cristi-Montero C, Fiúza-Luces C, Pareja-Galeano H, Martínez-López J, Garatachea N, Lucia A. Response rate to the treatment of Waldenstrom macroglobulinemia: A meta-analysis of the results of clinical trials. *Critical Reviews in Oncology Hematology*. 2016;105:118-26. IF: 5.039. Review.
- Santos-Lozano A, Sanchis-Gomar F, Barrero-Santalla S, Pareja-Galeano H, Cristi-Montero C, Sanz-Ayan P, Garatachea N, Fiúza-Luces C, Lucia A. Exercise as an adjuvant therapy against chronic atrial fibrillation. *International Journal of Cardiology*. 2016;207:180-4. IF: 4.638. Letter.
- Sanchis-Gomar F, Fiúza-Luces C, Lucia A. Exercise Intensity, Dose, and Cardiovascular Disease. *JAMA*. 2016;315:1658-9. IF: 37.684. Letter.

- Santos-Lozano A, Sanchis-Gomar F, Garatachea N, Arrarás-Flores Á, Pareja-Galeano H, Fiúza-Luces C, Joyner MJ, Lucia A. Incidence of sudden cardiac death in professional cycling. *Sudden cardiac death and exercise. International Journal of Cardiology.* 2016;223:222-23. IF: 4.638. Letter.
- Santos-Lozano A, Garatachea N, Pareja-Galeano H, Fiúza-Luces C, Sanchis-Gomar F, Lucia A. The Era of Smartphones: Back to Our Biological Makeup? *JMIR Mhealth Uhealth.* 2016;4(3):e63. IF: N/A. Letter.
- Sanchis-Gomar F, Morán M, Lucia A. Time for doctors to practise what they preach and preach what they practise. *British Journal of Sports Medicine.* 2016;50:1288. IF: 6.724. Letter.

#### **THESES DEFENDED OR DIRECTED IN THIS GROUP**

- **Candidate:** M<sup>a</sup> Gabriela Atencia Cibreiro  
**Title:** Efecto de la inhibición dual de GSK-3 y PDE-7 en un modelo murino de Esclerosis Lateral Amiotrófica.  
**Director/s:** Alberto García Redondo  
**Date Defended:** 12/01/2016  
**University:** Universidad Complutense de Madrid

- **Candidate:** M<sup>a</sup> del Pilar Quijada Fraile  
**Title:** Evolución y seguimiento de pacientes detectados en el nuevo cribado de la Comunidad de Madrid: nuestra experiencia.  
**Director/s:** Alberto García Redondo  
**Date Defended:** 9/02/2016  
**University:** Universidad Complutense de Madrid

## **PATHOPHYSIOLOGY OF MITOCHONDRIAL BIOGENESIS**



#### **ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)**

- Title: Cosmos, Robots y Terapias.  
Principal Investigator: Miguel Ángel Fernández Moreno  
Project No.: BIO2013-50346-EXP  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 2015  
End date: 2016
- Title: Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención. Aproximaciones a terapia basadas en el uso de iPSCs.  
Principal Investigator: M<sup>a</sup> Esther Gallardo Pérez (Proyecto coordinado)  
Project No.: PI15/00484  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 2016  
End date: 2018
- Title: Treatment of mitochondrial diseases with NAD+ precursors.  
Principal Investigator: Plácido Navas  
Project No.: BIO2013-50346-EXP  
Funding Body: CIBERER (ACCI2015)

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	11	41.750
Reviews	1	7.526
<b>Total</b>	<b>12</b>	<b>49.276</b>

- Cruz-Bermúdez A, Vicente-Blanco RJ, Hernández-Sierra R, Montero M, Alvarez J, González Manrique M, Blázquez A, Martín MA, Ayuso C, Garesse R, Fernández-Moreno MA. Functional Characterization of Three Concomitant MtDNA LHON Mutations Shows No Synergistic Effect on Mitochondrial Activity. *PLoS One.* 2016;11(1):e0146816. IF: 3.057. Article.
- Galera T, Zurita F, González-Páramos C, Moreno-Izquierdo A, Fraga MF, Fernández AF, Garesse R, Gallardo ME. Generation of a human control iPSC line with a European mitochondrial haplogroup U background. *Stem Cell Research.* 2016;16:88-91. IF: 3.892. Article.
- Zurita F, Galera T, González-Páramos C, Moreno-Izquierdo A, Schneiderat P, Fraga MF, Fernández AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with a defect of intergenomic communication. *Stem Cell Research.* 2016;16:120-3. IF: 3.892. Article.
- Zurita-Díaz F, Galera-Monge T, Moreno-Izquierdo A, Fraga MF, Ayuso C, Fernández AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with a mitochondrial encephalopathy due to mutations in the GFM1 gene. *Stem Cell Research.* 2016;16:124-7. IF: 3.892. Article.
- Galera-Monge T, Zurita-Díaz F, Moreno-Izquierdo A, Fraga MF, Fernández AF, Ayuso C, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with an optic atrophy 'plus' phenotype due to a mutation in the OPA1 gene. *Stem Cell Research.* 2016;16:673-6. IF: 3.892. Article.
- Galera T, Zurita F, González-Páramos C, Moreno-Izquierdo A, Fraga MF, Fernández AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with Leigh syndrome. *Stem Cell Research.* 2016;16:63-6. IF: 3.892. Article.
- Galera-Monge T, Zurita-Díaz F, González-Páramos C, Moreno-Izquierdo A, Fraga MF, Fernández AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with Leigh syndrome caused by a mutation in the MT-ATP6 gene. *Stem Cell Research.* 2016;16:766-9. IF: 3.892. Article.
- Neira JL, Martínez-Rodríguez S, Hernández-Cifre JG, Cámaras-Artigas A, Clemente P, Peralta S, Fernández-Moreno MÁ, Garesse R, García de la Torre J, Rizzuti B. Human COA3 Is an Oligomeric Highly Flexible Protein in Solution. *Biochemistry.* 2016;55:6209-20. IF: 2.876. Article.
- Galera T, Zurita-Díaz F, Garesse R, Gallardo ME. iPSCs, a Future Tool for Therapeutic Intervention in Mitochondrial Disorders: Pros and Cons. *Journal of Cellular Physiology.* 2016;231:2317-8. IF: 4.155. Article.
- Pareja-Galeano H, Sanchis-Gomar F, Emanuele E, Gallardo ME, Lucia A. iPSCs, a Promising Tool to Restore Muscle Atrophy. *Journal of Cellular Physiology.* 2016;231:259-60. IF: 4.155. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# GENETICS AND INHERITANCE

## GROUP DIRECTOR

Fernández Martínez, Francisco Javier

## RESEARCH GROUP MEMBERS

Gómez Manjón, Irene  
Moreno García, Marta

Moreno Izquierdo, Ana  
Vargas Gallego, Carmela

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
<b>TOTAL</b>		<b>2</b>

- Title: Identificación de un modelo combinado de tecnologías genómicas para la realización de diagnóstico prenatal genético.  
Principal Investigator: Francisco Javier Fernández Martínez  
Project No.: PI15/02036  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Desarrollo traslacional para la detección de aneuploidías mediante secuenciación masiva del ADN fetal libre en plasma materno.  
Principal Investigator: Francisco Javier Fernández Martínez  
Project No.: PI12/00639  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 30/06/2017

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	6	23.352
<b>Total</b>	<b>6</b>	<b>23.352</b>

- Galera T, Zurita F, Gonzalez-Paramos C, Moreno-Izquierdo A, Fraga MF, Fernandez AF, Garesse R, Esther Gallardo M. Generation of a human control iPSC line with a European mitochondrial haplogroup U background. *Stem Cell Research.* 2016;16:88-91. IF: 3.892. Article.
- Zurita F, Galera T, Gonzalez-Paramos C, Moreno-Izquierdo A, Schneiderat P, Fraga MF, Fernandez AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with a defect of intergenomic communication. *Stem Cell Research.* 2016;16:120-3. IF: 3.892. Article.
- Zurita-Díaz F, Galera-Monge T, Moreno-Izquierdo A, Fraga MF, Ayuso C, Fernandez AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with a mitochondrial encephalopathy due to mutations in the GFM1 gene. *Stem Cell Research.* 2016;16:124-7. IF: 3.892. Article.
- Galera-Monge T, Zurita-Díaz F, González-Páramos C, Moreno-Izquierdo A, Fraga MF, Fernández AF, Garesse R, Gallardo ME. Generation of a human iPSC line from a patient with Leigh syndrome caused by a mutation in the MT-ATP6 gene. *Stem Cell Research.* 2016;16:766-9. IF: 3.892. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# RESEARCH ON PHYSICAL ACTIVITY AND HEALTH



## ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención. Parte 3: Vías moleculares implicadas y aproximación terapéutica.  
Principal Investigator: Alejandro Lucía Mulas, Miguel Ángel Martín Casanueva  
Project No.: PI15/00558  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 2016  
End date: 2018
- Title: El ejercicio físico como terapia adyuvante en pacientes que sufren las consecuencias graves del trasplante alogénico de progenitores hematopoyéticos: la enfermedad injerto contra huésped.  
Principal Investigator: Alejandro Lucía Mulas
- Funding Body: Ayudas Investigación Ignacio Larramendi  
Start date: 2016  
End date: 2017
- Title: Estudio del efecto del entrenamiento físico en la reversión de la sarcopenia en nonagenarios: funcionalidad musculoesquelética y biomarcadores sanguíneos implicados.  
Principal Investigator: Helios Pareja Galeano  
Project No.: #2016/RM02  
Funding Body: Cátedra ASISA - Universidad Europea  
Start date: 2016  
End date: 2017
- Title: Enfermedad de McArdle: caracterización y registro de todos los pacientes españoles e implementación de

una plataforma de e-Health.  
Principal Investigator: Helios Pareja Galeano  
Project No.: #2016/UEM41  
Funding Body: Cátedra ASISA - Universidad Europea  
Start date: 2016  
End date: 2017

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	27	87.697
Reviews	14	52.249
Editorials	5	90.489
<b>Total</b>	<b>46</b>	<b>230.435</b>

- Papadimitriou ID, Lucia A, Pitsiladis YP, Pushkarev VP, Dyatlov DA, Orehov EF, Artioli GG, Guilherme JP, Lancha AH Jr, Ginevičienė V, Cieszczyk P, Maciejewska-Karbowska A, Sawczuk M, Muniesa CA, Kouvatsi A, Massidda M, Calò CM, Garton F, Houweling PJ, Wang G, Austin K, Druzhevskaya AM, Astratenkova IV, Ahmetov II, Bishop DJ, North KN, Eynon N. ACTN3 R577X and ACE I/D gene variants influence performance in elite sprinters: a multi-cohort study. *BMC Genomics.* 2016;17:285. IF: 3.867. Article.
- Sarzynski MA, Loos RJ, Lucia A, Pérusse L, Roth SM, Wolfarth B, Rankinen T, Bouchard C. Advances in Exercise, Fitness, and Performance Genomics in 2015. *Medicine and Science in Sports and Exercise.* 2016;48:1906-16. IF: 4.041. Article.
- Fuiza-Luces C, Santos-Lozano A, García-Silva MT, Martín-Hernández E, Quijada-Fraile P, Marín-Péiró M, Campos P, Arenas J, Lucía A, Martín MA, Morán M. Assessment of resting energy expenditure in pediatric mitochondrial diseases with indirect calorimetry. *Clinical Nutrition.* 2016;35:1484-9. IF: 4.487. Article.
- Emanuele E, Bertona M, Pareja-Galeano H, Fuiza-Luces C, Morales JS, Sanchis-Gomar F, Lucia A. Baicalin supplementation reduces serum biomarkers of skeletal muscle wasting and may protect against lean body mass reduction in cancer patients: Results from a pilot open-label study. *Neuroendocrinology Letters.* 2016;37:213-6. IF: 0.946. Article.
- Pareja-Galeano H, Mayero S, Perales M, Garatachea N, Santos-Lozano A, Fuiza-Luces C, Emanuele E, Gálvez BG, Sanchis-Gomar F, Lucia A. Biological Rationale for Regular Physical Exercise as an Effective Intervention for the Prevention and Treatment of Depressive Disorders. *Current Pharmaceutical Design.* 2016;22:3764-75. IF: 3.052. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Sanchis-Gomar F, Alis R, Rodríguez-Vicente G, Lucia A, Casajús JA, Garatachea N. Blood and Urinary Abnormalities Induced During and After 24-Hour Continuous Running: A Case Report. *Clinical Journal of Sport Medicine*. 2016;26:100-2. IF: 2.308. Article.
- Alis R, Sanchis-Gomar F, Risso-Ballester J, Blesa JR, Romagnoli M. Effect of training status on the changes in platelet parameters induced by short-duration exhaustive exercise. *Platelets*. 2016;27:117-22. IF: 3.213. Article.
- Sanchis-Gomar F, Pérez LM, Joyner MJ, Löllgen H, Lucia A. Endurance Exercise and the Heart: Friend or Foe? *Sports Medicine*. 2016;46:459-66. IF: 5.579. Article.
- Sanchis-Gomar F, Santos-Lozano A, Pareja Galeano H, Garatachea N, Alis R, Fiua-Luces C, Moran M, Emanuele E, Lucia A. Galectin-3, osteopontin and successful aging. *Clinical Chemistry and Laboratory Medicine*. 2016;54:873-7. IF: 3.017. Article.
- Nogales-Gadea G, Godfrey R, Santalla A, Coll-Cantí J, Pintos-Morell G, Pinós T, Arenas J, Martín MA, Lucia A. Genes and exercise intolerance: insights from McArdle disease. *Physiological Genomics*. 2016;48:93-100. IF: 2.615. Article.
- Santos-Lozano A, Santin-Medeiros F, Cristi-Montero C, Jaen-Jimenez R, Casajús JA, Garatachea N. GT1M, GT3X and ActiTrainer counts comparison during standardized activities in young, adults and older adults. *Nutricion Hospitalaria*. 2016;33:692-7. IF: 1.497. Article.
- Pareja-Galeano H, Sanchis-Gomar F, Emanuele E, Gallardo ME, Lucia A. IPSCs, a Promising Tool to Restore Muscle Atrophy. *Journal of Cellular Physiology*. 2016;231:259-60. IF: 4.155. Article.
- Perales M, Santos-Lozano A, Sanchis-Gomar F, Luaces M, Pareja-Galeano H, Garatachea N, Barakat R, Lucia A. Maternal Cardiac Adaptations to a Physical Exercise Program during Pregnancy. *Medicine and Science in Sports and Exercise*. 2016;48:896-906. IF: 4.041. Article.
- Alis R, Sanchis-Gomar F, Lippi G, Roamgnoli M. Microcentrifuge or Automated Hematological Analyzer to Assess Hematocrit in Exercise? Effect on Plasma Volume Loss Calculations. *JALA*. 2016;21:470-7. IF: 1.297. Article.
- Fiua-Luces C, Nogales-Gadea G, García-Consuegra I, Pareja-Galeano H, Rufián-Vázquez L, Pérez LM, Andreu AL, Arenas J, Martín MA, Pinós T, Lucia A, Morán M. Muscle Signaling in Exercise Intolerance: Insights from the McArdle Mouse Model. *Medicine and Science in Sports and Exercise*. 2016;48:1448-58. IF: 4.041. Article.
- Fuku N, Alis R, Yvert T, Zempo H, Naito H, Abe Y, Arai Y, Murakami H, Miyachi M, Pareja-Galeano H, Emanuele E, Hirose N, Lucia A. Muscle-Related Polymorphisms (MSTN rs1805086 and ACTN3 rs1815739) Are Not Associated with Exceptional Longevity in Japanese Centenarians. *PLoS One*. 2016;11(11):e0166605. IF: 3.057. Article.
- Sanchis-Gomar F, López-Ramón M, Alis R, Garatachea N, Pareja-Galeano H, Santos-Lozano A, Catalán P, Sansoni V, Perego S, Lombardi G, Löllgen H, Bueno H, Serrano-Ostáriz E, Lucia A. No evidence of adverse cardiac remodeling in former elite endurance athletes. *International Journal of Cardiology*. 2016;222:171-7. IF: 4.638. Article.
- Strauß M, Foshag P, Przybylek B, Horlitz M, Lucia A, Sanchis-Gomar F, Leischik R. Occupation and metabolic syndrome: is there correlation? A cross sectional study in different work activity occupations of German firefighters and office workers. *Diabetology & Metabolic Syndrome*. 2016;8: 57. IF: 2.119. Article.
- Sanchis-Gomar F, Pareja-Galeano H, Rodriguez-Marroyo JA, de Koning JJ, Lucia A, Foster C. Olympic Genes on the Podium? *International Journal of Sports Physiology and Performance*. 2016;11:973-4. IF: 3.042. Article.
- Santos-Lozano A, Pareja-Galeano H, Sanchis-Gomar F, Quindós-Rubial M, Fiua-Luces C, Cristi-Montero C, Emanuele E, Garatachea N, Lucia A. Physical Activity and Alzheimer Disease: A Protective Association. *Mayo Clinic Proceedings*. 2016;91:999-1020. IF: 5.920. Article.
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- Sanchis-Gomar F, Perez-Quilis C, Leischik R, Lucia A. Epidemiology of coronary heart disease and acute coronary syndrome. *Annals of Translational Medicine*. 2016;4:256. IF: N/A. Review.
- Sanchis-Gomar F, Lippi G, Lucia A. 'Mitotherapy' for Heart Failure. *Trends in Molecular Medicine*. 2016;22:267-9. IF: 9.292. Editorial Material.
- Lippi G, Sanchis-Gomar F, Favaloro EJ. Andexanet: Effectively Reversing Anticoagulation. *Trends In Pharmacological Sciences*. 2016;37:413-4. IF: 11.840. Editorial Material.
- Lucia A, Ramírez M. Muscling In on Cancer. *New England Journal of Medicine*. 2016;375:892-4. IF: 59.558. Editorial Material.
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- Sanchis-Gomar F, Leischik R, Lippi G. Energy drinks: Increasing evidence of negative cardiovascular effects. *International Journal of Cardiology*. 2016;206:153. IF: 4.638. Letter.
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- Sanchis-Gomar, Fabian, Fiua-Luces, Carmen, Lucia, Alejandro. Exercise Intensity, Dose, and Cardiovascular Disease. *JAMA*. 2016;315:1658-9. IF: 37.684. Letter.
- Santos-Lozano A, Pareja-Galeano H, Fuku N, Hirose N, Emanuele E, Lucia A, Sanchis-Gomar F. Implications of obesity in exceptional longevity. *Annals of Translational Medicine*. 2016;4:416. IF: N/A. Letter.
- Santos-Lozano A, Sanchis-Gomar F, Garatachea N, Arrarás-Flores Á, Pareja-Galeano H, Fiua-Luces C, Joyner MJ, Lucia A. Incidence of sudden cardiac death in professional cycling Sudden cardiac death and exercise. *International Journal of Cardiology*. 2016;223:222-3. IF: 4.638. Letter.
- Leischik R, Sanchis-Gomar F, Lucia A. Letter by Leischik et al Regarding Article, "Right and Left Ventricular Function and Mass in Male Elite Master Athletes: A Controlled Contrast-Enhanced Cardiovascular Magnetic Resonance Study". *Circulation*. 2016;134:362-3. IF: 17.202. Letter.
- Cervellin G, Buonocore R, Sanchis-Gomar F, Lippi G. Low serum bilirubin values are associated with pulmonary embolism in a case-control study. *Clinical Chemistry and Laboratory Medicine*. 2016;54:229-30. IF: 3.017. Letter.
- Sanchis-Gomar F, Perez-Quilis C, Lucia A. Overexpressing FSTL1 for Heart Repair. *Trends in Molecular Medicine*. 2016;22:353-4. IF: 9.292. Letter.
- Lippi G, Cervellin G, Sanchis-Gomar F. Red blood cell distribution width and cardiovascular disorders. Does it really matter which comes first, the chicken or the egg? *International Journal of Cardiology*. 2016;206:129-30. IF: 4.638. Letter.
- Santos-Lozano A, Garatachea N, Pareja-Galeano H, Fiua-Luces C, Sanchis-Gomar F, Lucia A. The Era of Smartphones: Back to Our Biological Makeup? *JMIR Mhealth and Uhealth*. 2016;4(3):e63. IF: N/A. Letter.
- Sanchis-Gomar F, Morán M, Lucia A. Time for doctors to practise what they preach and preach what they practice. *British Journal of Sports Medicine*. 2016;50:1288. IF: 6.724. Letter.

### PRIZES AND DISTINCTIONS

- First prize in Sports Medicine 2016 for the project "Efectos de un programa de ejercicio físico en pacientes pediátricos con tumores sólidos". Universidad de Oviedo and Liberbank.

# MITOCHONDRIAL MEMBRANE LABORATORY

## GROUP DIRECTOR

López Montero, Iván

## RESEARCH

### GROUP MEMBERS

Almendro Vedia, Víctor Galileo  
Aragón Gómez, Juan Luis  
González Charro, Vicente  
Gutiérrez Pérez, Paula

Muñoz Úbeda, Mónica  
Natale, Paolo  
Tolosa Díaz, Andrés Darío

## ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Proyecto asociado a la ayuda Ramón y Cajal.  
Project No.: RyC-2013-12609  
Principal Investigator: Iván López Montero  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/12/2014  
End date: 30/11/2018
- Title: Artificial Mitochondria for Health.  
Project No.: ERC-StG-2013-338133  
Principal Investigator: Iván López Montero  
Funding Body: Comisión Europea  
Start date: 01/12/2013  
End date: 30/11/2018
- Title: Materia activa accionada mediante polímeros vivos biológicos: de la estocasticidad microscópica a la mecánica macroscópica a través de la hidrodinámica.  
Project No.: FIS 2015-70330-C2-1-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Estudio multidisciplinar de la estabilidad de biofilms de pseudomonas fluorescens: mecánica, difusión y simulación.  
Project No.: PR26/16-10B-1  
Principal Investigator: Iván López Montero  
Funding Body: Santander-Universidad Complutense de Madrid  
Start date: 22/12/2016  
End date: 21/12/2018

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	2	20.024
Total	2	20.024

- Gutiérrez-Sanz Ó, Natale P, Márquez I, Marques MC, Zacarias S, Pita M, Pereira IA, López-Montero I, De Lacey AL, Vélez M. H<sub>2</sub>-Fueled ATP Synthesis on an Electrode: Mimicking Cellular Respiration. *Angewandte Chemie-International Edition*. 2016;55:6216-20. IF: 11.709. Article.
- Fiorini F, Prasetyanto EA, Taraballi F, Pandolfi L, Monroy F, López-Montero I, Tasciotti E, De Cola L. Nanocomposite Hydrogels as Platform for Cells Growth, Proliferation, and Chemotaxis. *Small*. 2016;12:4881-93. IF: 8.315. Article.
- Ahijado-Guzmán R, González-Rubio G, Izquierdo JG, Bañares L, López-Montero I, Calzado-Martín A, Calleja M, Tardajos G, Guerrero-Martínez A. Intracellular pH-Induced Tip-to-Tip Assembly of Gold Nanorods for Enhanced Plasmonic Photothermal Therapy. *ACS Omega*. 2016;1:388-95. IF: N/A. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# PORPHYRIA, HAEMOCHROMATOSIS, AND ANEMIA

## RESEARCH GROUP MEMBERS

### GROUP DIRECTOR

Morán Jiménez, M<sup>a</sup> Josefa  
Méndez Alba, Manuel

Borrero Corte, M<sup>a</sup> José  
Enríquez de Salamanca  
Lorente, Rafael  
García Pastor, M<sup>a</sup> Inmaculada  
Garrido Astray, M<sup>a</sup> Concepción

Horta Herrera, Saúl  
Jara Rubio, Fátima  
Moreno Carralero, M<sup>a</sup> Isabel  
Sepúlveda Muñoz, Juan Carlos

### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación Mutua Madrileña	3
Competitive	Fundación Eugenio Rodríguez Pascual	1
<b>TOTAL</b>		<b>5</b>

- Title: Base genética de las porfirias.  
Principal Investigator: Manuel Méndez Alba  
Project No.: PI15/01404  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

- Title: Abordaje mediante secuenciación masiva para el diagnóstico genético de distintos tipos de anemias.  
Principal Investigator: M<sup>a</sup> José Morán Jiménez

Project No.: FMM 2016/0084  
Funding Body: Fundación Mutua Madrileña  
Start date: 01/10/2016  
End date: 30/09/2019

Title: Caracterización genética de las anemias diseritropoyéticas congénitas.  
Principal Investigator: M<sup>a</sup> José Morán Jiménez  
Project No.: FMM 2014/0094  
Funding Body: Fundación Mutua Madrileña

Start date: 17/11/2014  
End date: 16/11/2016

- Title: Genética molecular de las Porfirias.  
Principal Investigator: Manuel Méndez Alba  
Project No.: FMM 2013/0067  
Funding Body: Fundación Mutua Madrileña  
Start date: 19/09/2013  
End date: 18/09/2015, extended to 31/12/2016

- Title: Estrategia molecular para caracterizar la base genética de los trastornos hereditarios del metabolismo del hierro.  
Principal Investigator: M<sup>a</sup> José Morán Jiménez  
Project No.: 2013/0014  
Funding Body: Fundación Eugenio Rodríguez Pascual  
Start date: 08/02/2013  
End date: 07/02/2016

### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	3	18.975
<b>Total</b>	<b>3</b>	<b>18.975</b>

- Collantes M, Serrano-Mendioroz I, Benito M, Molinet-Dronda F, Delgado M, Vinaixa M, Sampedro A, Enríquez de Salamanca R, Prieto E, Pozo MA, Peñuelas I, Corrales FJ, Barajas M, Fontanellas A. Glucose metabolism during fasting is altered in experimental porphobilinogen deaminase deficiency. Human Molecular Genetics. 2016; 25:1318-27. IF: 5.985. Article.
- D'Avola D, López-Franco E, Sangro B, Pañeda A, Grossios N, Gil-Farina I, Benito A, Twisk J, Paz M, Ruiz J, Schmidt M, Petry H, Harper P, de Salamanca RE, Fontanellas A, Prieto J, González-Aseguinolaza G. Phase I open label liver-directed gene therapy clinical trial for acute intermittent porphyria. Journal Of Hepatology. 2016;65:776-83. IF: 10.590. Article.
- Galicia-Poblet G, Cid-París E, López-Andrés N, Losada-Pajares A, Jurado-López JC, Moreno-Carralero MI, Morán-Jiménez MJ. Pediatric Ferroportin Disease. Journal of Pediatric Gastroenterology and Nutrition. 2016;63:205-7. IF: 2.400. Article.
- Méndez M, Moreno-Carralero MI, Morado-Arias M, Fernández-Jiménez MC, de la Iglesia Iñigo S, Morán-Jiménez MJ. Sideroblastic anemia: functional study of two novel missense mutations in ALAS2. Molecular Genetics & Genomic Medicine. 2016;4:273-82. IF: N/A. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



**COORDINATOR: AGUSTÍN GÓMEZ DE LA CÁMARA**

**Clinical Epidemiology**

**Research on Cardiovascular Risk**

**Research on Health Services and Results**

**Maternal and Infant Health**

## CLINICAL EPIDEMIOLOGY



### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
<b>TOTAL</b>		<b>3</b>

- Title: Estudio DRECE V (dieta y riesgo de enfermedad cardiovascular en España). 20 años de seguimiento de una cohorte española.  
Principal Investigator: Agustín Gómez de la Cámara  
Project No.: PI10/02123  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2011  
End date: 31/12/2013, extended to 30/12/2016
- Title: Identificación de un Modelo de Gen(S)-Dieta(S)-Fenotipo(S) y su Asociación con Morbimortalidad Cardiovascular. Estudio DRECE VI.

- Principal Investigator: Agustín Gómez de la Cámara  
Project No.: PI14/01940  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Modelo normalizado de Historia Clínica Electrónica compartida para la asistencia integrada. Factibilidad y utilidad en un repositorio regional para pacientes con cáncer de mama.  
Principal Investigator: Pablo Serrano Balazote  
Project No.: PI15/00321

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018

### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- INSITE. Project based on the development of an innovative platform for the use of health data from different sources for purposes of clinical research. The European Institute For Innovation Through Health Data.
- CUSTODIX. Technology. Project for the management of information in a European hospital network. The European Institute For Innovation Through Health Data.
- PROCREATEC. Evaluation of a new technology offer for improving implementation rates. CAM.
- SITHEPAC. National Spanish Registry SIThepaC (Sistema español de información de monitoreo terapéutico de pacientes con hepatitis C crónica). Strategic plan for treating hepatitis C in the National Health System. Ministerio de Sanidad, Servicios Sociales e Igualdad.
- SUICIDIOS. Research project "Incidencia y factores de riesgo condicionantes de Suicidio en la CAM".
- NEOVANC. Regulatory support. Randomized, open-label, multicenter phase IIb trial to compare the efficacy, safety, and pharmacokinetics of the optimal dose and standard dose of vancomycin in neonates and children aged 90 days or less with suspected sepsis or confirmed sepsis caused by gram-positive microorganisms. Sponsor: Fondazione PENTA Onlus. FP7-Health-2013-Innovation-1.
- EFFICACY AND SAFETY OF ENTERAL NUTRITION IN THE CRITICALLY ILL PATIENT REQUIRING VASOACTIVE SUPPORT. Prospective, observational, multicenter study to analyze the tolerance and safety of enteral nutrition administered to a sample of patients requiring vasoactive and/or inotropic support. Grupo de Trabajo de Metabolismo y Nutrición (GTMN) de la Sociedad Española de Medicina Intensiva, Crítica y Unidades Coronarias (SEMICYUC).
- CLUSTERED MUTATIONS. Location and Visualization of Clustered Somatic Mutations. R package version 1.0.1 <https://CRAN.R-project.org/package=ClusteredMutations> (2016).

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	15	45.832
<b>Total</b>	<b>15</b>	<b>45.832</b>

- Marron MC, Lora D, Gamez P, Rivas JJ, Embun R, Molins L, de la Cruz J; GECMP-CCR-SEPAR Spanish Colorectal Agreement Between Computed Tomography and Pathologic Nodule Counts in Colorectal Lung Metastases. *Annals of Thoracic Surgery*. 2016;101:259-65. IF: 3.021. Article.
- Alvarez-Alonso MJ, Jurado-Barba R, Martinez-Martin N, Espin-Jaime JC, Bolaños-Porrero C, Ordoñez-Franco A, Rodriguez-Lopez JA, Lora-Pablos D, de la Cruz-Bértolo J, Jimenez-Arriero MA, Manzanares J, Rubio G. Association between maltreatment and polydrug use among adolescents. *Child Abuse & Neglect*. 2016;51:379-89. IF: 2.397. Article.
- Alonso-Díaz C, Utrera-Torres I, de Alba-Romero C, Flores-Antón B, Lora-Pablos D, Rosa Pallas-Alonso C. Breastfeeding Support in Spanish Neonatal Intensive Care Units and the Baby-Friendly Hospital Initiative: A National Survey. *Journal of Human Lactation*. 2016;32:613-26. IF: 2.233. Article.
- Martínez-Flores JA, Serrano M, Pérez D, Cámara A G, Lora D, Morillas L, Ayala R, Paz-Artal E, Morales JM, Serrano A. Circulating Immune Complexes of IgA Bound to Beta 2 Glycoprotein are Strongly Associated with the Occurrence of Acute Thrombotic Events. *Journal of Atherosclerosis and Thrombosis*. 2016;23:1242-53. IF: 2.411. Article.
- Bonfill X, Osorio D, Solà I, Pijoan JI, Balasso V, Quintana MJ, Puig T, Bolíbar I, Urrútia G, Zamora J, Emparanza JI, Gómez de la Cámara A, Ferreira-González I. DianaHealth.com, an On-Line Database Containing Appraisals of the Clinical Value and Appropriateness of Healthcare Interventions: Database Development and Retrospective Analysis. *PLoS One*. 2016;11(2):e0147943. IF: 3.057. Article.
- Pérez D, Martínez-Flores JA, Serrano M, Lora D, Paz-Artal E, Morales JM, Serrano A. Evaluation of three fully automated immunoassay systems for detection of IgA anti-beta 2-glycoprotein I antibodies. *International Journal of Laboratory Hematology*. 2016;38:560-8. IF: 2.401. Article.
- Lora D, Contador I, Perez-Regadera JF, Gomez de la Camara A. Features of the area under the receiver operating characteristic (ROC) curve. A good practice. *Stata Journal*. 2016;16:185-96. IF: 1.292. Article.
- Alonso-Díaz C, Utrera-Torres I, de Alba-Romero C, Flores-Antón B, López-Maestro M, Lora-Pablos D, Pallás-Alonso CR. Feeding practices with human milk in newborns less than 1.500 g or less than 32 weeks. *Anales de Pediatría*. 2016;85:26-33. IF: 0.773. Article.
- Mosqueda-Peña R, Lora-Pablos D, Pavón-Muñoz A, Ureta-Velasco N, Moral-Pumarega MT, Pallás-Alonso CR. Impact of a Developmental Care Training Course on the Knowledge and Satisfaction of Health Care Professionals in Neonatal Units: A Multicenter Study. *Pediatrics and Neonatology*. 2016;57:97-104. IF: 1.319. Article.

- Lozano-Rubí R, Muñoz Carrero A, Serrano Balazote P, Pastor X. OntoCR: A CEN/ISO-13606 clinical repository based on ontologies. *Journal of Biomedical Informatics*. 2016;60:224-33. IF: 2.447. Article.
- Llamas-Velasco S, Villarejo-Galende A, Contador I, Lora Pablos D, Hernández-Gallego J, Bermejo-Pareja F. Physical activity and long-term mortality risk in older adults: A prospective population based study (NEDICES). *Preventive Medicine Reports*. 2016;4:546-50. IF: N/A. Article.
- Castaño-Leon AM, Lora D, Munarriz PM, Cepeda S, Paredes I, de la Cruz J, Gómez Lopez PA, Lagares A. Predicting Outcomes after Severe and Moderate Traumatic Brain Injury: An External Validation of Impact and Crash Prognostic Models in a Large Spanish Cohort. *Journal of Neurotrauma*. 2016;33:1598-606. IF: 4.377. Article.
- Bermejo-Pareja F, Contador I, Trincado R, Lora D, Sánchez-Ferro Á, Mitchell AJ, Boycheva E, Herrero A, Hernández-Gallego J, Llamas S, Villarejo Galende A, Benito-León J. Prognostic Significance of Mild Cognitive Impairment Subtypes for Dementia and Mortality: Data from the NEDICES Cohort. *Journal of Alzheimers Disease*. 2016;50:719-31. IF: 3.920. Article.
- Puig-Asensio M, Fernández-Ruiz M, Aguado JM, Merino P, Lora-Pablos D, Guinea J, Martín-Dávila P, Cuenca-Estrella M, Almirante B. Propensity Score Analysis of the Role of Initial Antifungal Therapy in the Outcome of *Candida glabrata* Bloodstream Infections. *Antimicrobial Agents and Chemotherapy*. 2016;60:3291-300. IF: 4.415. Article.
- Librizzi S, Guadalix S, Martínez-Díaz Guerra G, Allo G, Lora D, Jimenez C, Hawkins F. Trabecular bone score in patients with liver transplants after 1 year of risedronate treatment. *Transplant International*. 2016;29:331-7. IF: 2.835. Article.
- Vazquez-Roman S, Escuder-Vieco D, Garcia-Lara NR, Alonso-Díaz C, Lora D, Martin-Pelegrina MD, Pallas-Alonso CR. Impact of Freezing Time on Dornic Acidity in Three Types of Milk: Raw Donor Milk, Mother's Own Milk, and Pasteurized Donor Milk. *Breastfeeding Medicine*. 2016;11:91-3. IF: 1.438. Letter.
- Sanz-Bueno J, Lora D, Monsálvez V, Maroñas-Jiménez L, Postigo C, Rodríguez-Peralto JL, Ortiz-Romero PL. The new Cutaneous Lymphoma International Prognostic index (CLIP) for early mycosis fungoides failed to identify prognostic groups in a cohort of Spanish patients. *British Journal of Dermatology*. 2016;175:794-6. IF: 4.317. Letter.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

## RESEARCH ON CARDIOVASCULAR RISK



## RESEARCH ON HEALTH SERVICES AND RESULTS



### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	1	2.955
<b>Total</b>	<b>1</b>	<b>2.955</b>

- Salinero-Fort MÁ, San Andrés-Rebollo FJ, de Burgos-Lunar C, Abánades-Herranz JC, Carrillo-de-Santa-Pau E, Chico-Moraleja RM, Jiménez-García R, López-de-Andrés A, Gómez-Campelo P; MADIBETES Group. Cardiovascular and all-cause mortality in patients with type 2 diabetes mellitus in the MADIBETES Cohort Study: Association with chronic kidney disease. *Journal of Diabetes and Its Complications*. 2016;30:227-36. IF: 2.955. Article.

### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Asociación entre los criterios de buena atención de la cartera de servicios y el grado de control metabólico de las personas con diabetes en Atención Primaria de la Comunidad de Madrid.  
Principal Investigator: Javier Pérez Rivas  
Funding Body: Fundación Española de Calidad Asistencial (FECA)  
Grant date: 2016

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	4	3.729
<b>Total</b>	<b>4</b>	<b>3.729</b>

- Pérez Rivas FJ, Martín-Iglesias S, Pacheco del Cerro JL, Minguet Arenas C, García López M, Beamud Lagos M. Effectiveness of Nursing Process Use in Primary Care. International Journal of Nursing Knowledge. 2016;27:43-8. IF: 0.727. Article.
- de Hoyos-Alonso MC, Bonis J, Tapias-Merino E, Castell MV, Otero A. Estimated prevalence of dementia based on analysis of drug databases in the Region of Madrid (Spain). Neurologia. 2016;31:1-8. IF: 1.790. Article.
- Martín-Fernández J, Ariza-Cardiel G, Polentinos-Castro E, Gil-Lacruz AI, Gómez-Gascón T, Domínguez-Bidagor J, Del-Cura-González I. Risk-taking attitudes of people who seek health care: an exploratory approach through lottery games using generalized estimating equations. Revista Espanola de Salud Pública. 2016;90:e1-e14. IF: 0.606. Article.

**MATERNAL AND INFANT HEALTH****ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	Commission of the European Communities	1
Competitive	ISCIII	4
Competitive	Fundación Alicia Koplowitz	1
Noncompetitive	Various	1
<b>TOTAL</b>		<b>7</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Title: NEOVANC - Treatment of late onset bacterial sepsis caused by vancomycin susceptible bacteria in neonates and infants aged under three months.  
Principal Investigator: Concepción de Alba Romero  
Project No.: 2014/0045  
Funding Body: Commission of the European Communities  
Start date: 01/02/2014  
End date: 31/01/2019
- Title: Episodios de disminución de la saturación de oxígeno en recién nacidos en contacto piel con piel en relación con la posición materna tras el parto. Ensayo clínico aleatorizado.  
Principal Investigator: Nadia Raquel García Lara  
Project No.: PI13/00481  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016, extended to 30/06/2018
- Title: Estudio comparativo de la pasteurización HTST frente a la Holder en un banco de leche humana: parámetros microbiológicos, nutricionales, bioquímicos e inmunológicos.  
Principal Investigator: Carmen Rosa Pallás Alonso  
Project No.: PI12/02128  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 30/06/2017
- Title: Relación entre la ingesta dietética y los parámetros bioquímicos de una población de donantes de leche materna con la concentración de micronutrientes y clases lipídicas en la leche donada.  
Principal Investigator: Carmen Rosa Pallás Alonso

Project No.: PI15/00995  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

- Title: PITES-TIIS: registro clínico comprensivo para la atención integrada neonatal y la generación de conocimiento.  
Principal Investigator: Gerardo José Bustos Lozano  
Project No.: PI15/00825  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Los cuidados neonatales centrados en el desarrollo individualizado (NIDCAP) como posible factor protector del ajuste psicológico en recién nacidos con peso menor de 1500 g: una aproximación multidisciplinar.  
Principal Investigator: Carmen Rosa Pallás Alonso  
Project No.: 2013/0088  
Funding Body: Fundación Alicia Koplowitz  
Start date: 14/09/2013  
End date: 01/10/2016
- Title: Modificación del pH y crecimiento bacteriano en leche humana donada pasteurizada con el tiempo de refrigeración, en las condiciones habituales en una unidad neonatal.  
Principal Investigator: Carmen Rosa Pallás Alonso  
Funding Body: Roche Diagnostics GMBH  
Start date: 01/01/2016  
End date: 31/12/2019

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	13	26.841
Reviews	1	1.497
<b>Total</b>	<b>14</b>	<b>28.338</b>

- German Diaz M, Moreno Villares JM, Gomis Munoz P, Leon Sanz M. Bactericide and antibiotic lock therapy in pediatric patients with home parenteral nutrition. Update. Nutricion Hospitalaria. 2016;33:771-81. IF: 1.497. Article.
- Escuder-Vieco D, Garcia-Algar Ó, Joya X, Marchei E, Pichini S, Pacifici R, Pallás-Alonso CR. Breast Milk and Hair Testing to Detect Illegal Drugs, Nicotine, and Caffeine in Donors to a Human Milk Bank. Journal of Human Lactation. 2016;32:542-5. IF: 2.233. Article.
- Alonso-Díaz C, Utrera-Torres I, de Alba-Romero C, Flores-Antón B, López-Maestro M, Lora-Pablos D, Pallás-Alonso CR. Feeding practices with human milk in newborns less than 1.500 g or less than 32 weeks. Anales de Pediatría. 2016;85:26-33. IF: 0.773. Article.
- Mosqueda-Peña R, Lora-Pablos D, Pavón-Muñoz A, Ureña-Velasco N, Moral-Pumarega MT, Pallás-Alonso CR. Impact of a Developmental Care Training Course on the Knowledge and Satisfaction of Health Care Professionals in Neonatal Units: A Multicenter Study. Pediatrics and Neonatology. 2016;57:97-104. IF: 1.319. Article.
- Antón-Pacheco JL, Luna C, García E, López M, Morante R, Tordable C, Palacios A, de Miguel M, Benavent I, Gómez A. Initial Experience With a New Biodegradable Airway Stent in Children: Is This the Stent We Were Waiting for? Pediatric Pulmonology. 2016;51:607-12. IF: 2.850. Article.
- Aguilar Jimenez JM, Garcia Torres E, Mendoza Soto A, Granados Ruiz MA, Palacios Cuesta A, Comas Illas JV. Management of the late presenters with transposition of great arteries and intact ventricular septum. A case report. Cirugía Cardiovascular. 2016;23:101-3. IF: N/A. Article.
- Martín-Hernández E, Rodríguez-García ME, Camacho A, Matilla-Dueñas A, García-Silva MT, Quijada-Fraile

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- P. Corral-Juan M, Tejada-Palacios P, de Las Heras RS, Arenas J, Martín MA, Martínez-Azorín F. New ATP8A2 gene mutations associated with a novel syndrome: encephalopathy, intellectual disability, severe hypotonia, chorea and optic atrophy. *Neurogenetics*. 2016;17:259-63. IF: 3.426. Article.
- Cortés Rico O, Pallás Alonso CR, Sánchez Ruiz-Cabello FJ, Revuelta JC, Esparza Olcina J, Sánchez-Ventura JG, Aguado JG, Rubio AM, Mengual Gil JM, Moina MM. Resumen PAPPS infancia y adolescencia 2016. *Atencion Primaria*. 2016;48(Suppl 1):127-47. IF: 1.098. Article.
- Palacios A, Mencia S, Llorente AM, Cruz J, Toledo B, Ordóñez O, Olmedilla M, López-Herce J. Sevoflurane Therapy for Severe Refractory Bronchospasm in Children. *Pediatric Critical Care Medicine*. 2016;17:380-4. IF: 2.659. Article.
- Calvaresi V, Escuder D, Minutillo A, Bastons-Compta A, García-Algar O, Pallás Alonso CR, Pacifici R, Pichini S. Transfer of Nicotine, Cotinine and Caffeine Into Breast Milk in a Smoker Mother Consuming Caffeinated Drinks. *Journal Of Analytical Toxicology*. 2016;40:473-7. IF: 2.322. Article.
- Balcells C, Botet F, Gayete S, Marcos MA, Dorronsoro I, de Alba C, Figueras-Aloy J; Castrillo Study Group. Vertically transmitted cytomegalovirus infection in newborn preterm infants. *Journal of Perinatal Medicine*. 2016;44:485-90. IF: 1.798. Article.
- Burgos Pelaez R, Cuerda Compes MC, Garcia-Luna PP, Martinez Faedo C, Mauri Roca S, Moreno Villares JM, Virgili Casas MN, Wanden-Berghe C. Teduglutide: a review of its use in short bowel syndrome. *Nutricion Hospitalaria*. 2016;33: 969-77. IF: 1.497. Review.
- Tobio-Gimeno A, Escuder-Vieco D, Flores-Anton B, Vazquez-Roman S, Pallas-Alonso CR. Changes in Pasteurized Donor Human Milk during Refrigeration. *Journal of Human Lactation*. 2016;32:763. IF: 2.233. Letter.

- Sambricio J, Tejada-Palacios P, Barceló-Mendiguchía A. Choroidal neovascularization, outer retinal tubulation and fundus autofluorescence findings in a patient with enhanced S-cone syndrome. *Clinical and Experimental Ophthalmology*. 2016;44:69-71. IF: 2.546. Letter.
- Pallas-Alonso C, Rodriguez-Lopez J, Moral-Pumarega MT. Degree of Compliance with a Protocol for Performing Safe Skin-to-Skin Care. *Journal of Human Lactation*. 2016;32:183. IF: 2.233. Letter.
- Vazquez-Roman S, Escuder-Vieco D, Garcia-Lara NR, Alonso-Diaz C, Lora D, Martin-Pelegrina MD, Pallas-Alonso CR. Impact of Freezing Time on Dornic Acidity in Three Types of Milk: Raw Donor Milk, Mother's Own Milk, and Pasteurized Donor Milk. *Breastfeeding Medicine*. 2016;11:91-3. IF: 1.438. Letter.
- Peña-González L, Guerra-García P, Sánchez-Calvín MT, Delgado-Ledesma F, de Alba-Romero C. New genetic mutation associated with Pierson syndrome. *Anales de Pediatría*. 2016;85:321-2. IF: 0.773. Letter.
- López-Maestro M, Mosqueda-Peña R, Rosa Pallás-Alonso C. Non-pharmacological analgesia in spanish neonatal units. *Anales de Pediatría*. 2016;84:65. IF: 0.773. Letter.
- Gimeno Sánchez I, Muñoz Hidalgo ME, Martino Alba RJ, Moreno Villares JM. Specific care for children with medical complexity in Spain: Searching for the best model. *Anales de Pediatría*. 2016;85:56-7. IF: 0.773. Letter.
- Moreno Villares JM. The value of the kinetics of citrulline and arginine as a prognostic factor in critically ill paediatric patients. *Anales de Pediatría*. 2016;84:183. IF: 0.773. Letter.

#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Clara Alonso Díaz  
**Title:** Lactancia materna en las Unidades Neonatales españolas. Práctica clínica y factores asociados.  
**Director/s:** Carmen Rosa Pallás Alonso  
**Date Defended:** 02/02/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Gemma Sierra Colomina  
**Title:** Mujeres donantes de leche. Caracterización de la población y estudio de las medidas de higiene para la extracción de leche.  
**Director/s:** Carmen Rosa Pallás Alonso  
**Date Defended:** 11/01/2016  
**University:** Universidad Complutense de Madrid

#### PATENTS

- Title:** Pasteurizador en continuo para leche humana.  
**Number:** PCT/ES2016/070594.  
**Type:** PCT.  
**Inventors:** Diana Escuder Vieco, Carmen Rosa Pallás Alonso, Pablo Siegfried Seley, Leónides Fernández Álvarez.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (33,33%), Sive Fluid Systems, S.L. (33,33%), Probisearch, S.L. (33,33%).  
**Date of application:** 05/08/2016
- Title:** Pasteurizador en continuo a altas temperaturas y tiempos cortos para la leche humana.  
**Number:** P201531186.  
**Type:** Spanish.  
**Inventors:** Diana Escuder Vieco, Carmen Rosa Pallás Alonso, Pablo Siegfried Seley, Leónides Fernández Álvarez.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (33,33%), Sive Fluid Systems, S.L. (33,33%), Probisearch, S.L. (33,33%).  
**Date of application:** 11/08/2015

#### PRIZES AND DISTINCTIONS

- Prize for Good Practice from Sistema Nacional de Salud: "Cuidado Piel con Piel Seguro".



**COORDINATOR: LUIS CARLOS JIMÉNEZ ROMERO**

**Tissue Engineering**

**Regenerative Medicine**

**Abdominal Organ Transplant**

**Organ Transplant and  
Infection in the Critical Patient**

**Kidney Transplant**



# TISSUE ENGINEERING

## GROUP DIRECTOR

Serrano Hernández, Antonio

## RESEARCH GROUP MEMBERS

Cabrera Marante, Óscar  
Martínez González, Miguel Ángel  
Martínez Salio, Antonio  
Morales Cerdán, José M<sup>a</sup>  
Pérez Méndez, M<sup>a</sup> Dolores  
Vázquez Benítez, Greysy Tibisay  
Villar Ruiz, Olga Patricia

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	1
<b>TOTAL</b>		<b>2</b>

▪ Title: Anticuerpos antifosfolípido fuera del consenso de Sidney en pacientes con clínica de síndrome antifosfolípido primario y expandido con serología negativa.  
Principal Investigator: Antonio Serrano Hernández  
Project No.: PI14/00360  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017

▪ Title: Estudio multicéntrico de la influencia de los anticuerpos antifosfolípido pretrasplante en la evolución del trasplante renal.  
Principal Investigator: Antonio Serrano Hernández  
Funding Body: Astellas Pharma, S.A.  
Start date: 02/01/2015  
End date: 01/01/2018

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	13	34.324
Reviews	1	1.396
<b>Total</b>	<b>14</b>	<b>35.720</b>

- De la Rosa Kehrmann F, García González L, Pamplona Casamayor M, Rodríguez Antolín A, Duarte Ojeda J, Villacampa Aubá F, Medina Polo J, González Monte E, Serrano A, Passas Martínez J. Association entre la perte précoce de la greffe et la présence des anticorps IgA préformés dirigés contre  $\beta 2$  glycoprotéine I. Progrès en Urologie. 2016;26: 713-0. IF: 0.562. Article.
- Martínez-Feito A, Melero J, Mora-Díaz S, Rodríguez-Vigil C, Elduayen R, González-Granado LI, Pérez-Méndez D, Sánchez-Zapardiel E, Ruiz-García R, Menchén M, Díaz-Madroñero J, Paz-Artal E, Del Orbe-Barreto R, Riñón M, Allende LM. Autoimmune lymphoproliferative syndrome due to somatic FAS mutation (ALPS-sFAS) combined with a germline caspase-10 (CASP10) variation. Immunobiology. 2016;221:40-7. IF: 2.781. Article.
- Alfaro J, Pérez D, Jiménez C, Serrano M, Martínez-Flores JA, Grau M, Sánchez-Zapardiel E, Paz-Artal E, Serrano A. Blockade of cell adhesion molecules enhances cell engraftment in a murine model of liver cell transplantation. Transplant Immunology. 2016;35:7-11. IF: 1.317. Article.
- Martínez-Flores JA, Serrano M, Pérez D, Cámara AG, Lora D, Morillas L, Ayala R, Paz-Artal E, Morales JM, Serrano A. Circulating Immune Complexes of IgA Bound to Beta 2 Glycoprotein are Strongly Associated with the Occurrence of Acute Thrombotic Events. Journal of Atherosclerosis and Thrombosis. 2016;23:1242-53. IF: 2.411. Article.
- Sánchez-Zapardiel E, Castro-Panete MJ, Mancebo E, Morales P, Laguna-Goya R, Morales JM, Apaza J, de Andrés A, Talayero P, Paz-Artal E. Early renal graft function deterioration in recipients with preformed anti-MICA antibodies: partial contribution of complement-dependent cytotoxicity. Nephrology Dialysis Transplantation. 2016; 31:150-60. IF: 4.085. Article.
- Pérez D, Martínez-Flores JA, Serrano M, Lora D, Paz-Artal E, Morales JM, Serrano A. Evaluation of three fully automated immunoassay systems for detection of IgA anti-beta 2-glycoprotein I antibodies. International Journal of Laboratory Hematology. 2016;38:560-8. IF: 2.401. Article.
- Sánchez-Zapardiel E, Mancebo E, Díaz-Ordoñez M, de Jorge-Huerta L, Ruiz-Martínez L, Serrano A, Castro-Panete MJ, Utrero-Rico A, de Andrés A, Morales JM, Domínguez-Rodríguez S, Paz-Artal E. Isolated De Novo Antiendothelial Cell Antibodies and Kidney Transplant Rejection. American Journal of Kidney Diseases. 2016; 68:933-43. IF: 6.269. Article.
- Origüen J, Fernández-Ruiz M, López-Medrano F, Ruiz-Merlo T, González E, Morales JM, Fiorante S, San-Juan R, Villa J, Orellana MÁ, Andrés A, Aguado JM. Progressive increase of resistance in Enterobacteriaceae urinary isolates from kidney transplant recipients over the past decade: narrowing of the therapeutic options. Transplant Infectious Disease. 2016;18:575-84. IF: 1.459. Article.
- López-Medrano F, Silva JT, Fernández-Ruiz M, Carver PL, van Delden C, Merino E, Pérez-Saez MJ, Montero M, Coussement J, de Abreu Mazzolin M, Cervera C, Santos

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- L, Sabé N, Scemla A, Cordero E, Cruzado-Vega L, Martín PL, Len Ó, Rudas E, Ponce de León A, Arriola M, Lazurica R, David M, González-Rico C, Henríquez-Palop F, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Lumbreras C, Moreno A, Carratalà J, Blanes M, Hernández D, Hernández-Méndez EA, Fariñas MD, Perelló-Carrascosa M, Morales JM, Andrés A, Aguado JM; Spanish Network for Research in Infectious Diseases (REIPI), the Group for the Study of Infection in Transplant Recipients (GESITRA) of the Spanish Society of Clinical Microbiology and Infectious Diseases (SEIMC), the Study Group for Infections in Compromised Hosts (ESGICH) of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID), and the Swiss Transplant Cohort Study (STCS). Risk Factors Associated With Early Invasive Pulmonary Aspergillosis in Kidney Transplant Recipients: Results From a Multinational Matched Case-Control Study. *American Journal of Transplantation*. 2016;16:2148-57. IF: 5.669. Article.
- Cannata-Ortiz P, Gracia C, Aouad Y, Barat A, Martinez-Gonzalez MA, Rossello G, Martin-Cleary C, Fernandez-Fernandez B, Requena L, Ortiz A. Small vessel microembolization and acute glomerulonephritis following infection of aesthetic filler implants. *Diagnostic Pathology*. 2016;11:2. IF: 1.895. Article.
- Serrano M, Cabrera-Marante O, Martínez-Flores JA, Morales P, Pérez D, Mora S, García F, González E, Paz-Artal E, Morales JM, Serrano A. Study of beta(2)-Glycoprotein

I Polymorphisms in Patients With Chronic Renal Failure as a Predisposing Factor for the Development of Anti-beta(2)-Glycoprotein I Auto-Antibodies. *Transplantation Proceedings*. 2016;48:2876-9. IF: 0.867. Article.

- Díaz-Crespo F, Villacorta J, Acevedo M, Cavero T, Guerrero C, García Díaz E, Orradre JL, Martínez MA, Praga M, Fernández-Juarez G. The predictive value of kidney biopsy in renal vasculitis: a multicenter cohort study. *Human Pathology*. 2016;52:119-27. IF: 2.791. Article.
- Vázquez-Benítez G, Pérez-Campos A, Masgrau NA, Pérez-Barrios A. Unexpected Tumor: Primary Asymptomatic Schwannoma in Thyroid Gland. *Endocrine Pathology*. 2016;27:46-9. IF: 1.817. Article.
- Martínez-Flores JA, Serrano M, Morales JM, Serrano A. Antiphospholipid Syndrome and Kidney Involvement: New Insights. *Antibodies*. 2016;5(3):17. IF: N/A. Review.
- Tardío JC, Pinedo F, Aramburu JA, Martínez-González MÁ, Arias D, Khedaoui R, Suárez-Massa D, Santonja C. Clear Cell Atypical Fibroanthoma: Clinicopathological Study of 6 Cases and Review of the Literature With Special Emphasis on the Differential Diagnosis. *American Journal of Dermatopathology*. 2016;38:586-92. IF: 1.396. Review.
- González Sánchez M, Llorente Ayuso L, Ruiz Morales J, Martínez Salio A. Neuropathic pruritus as the presenting symptom of lupus transverse myelitis. *Journal of the Neurological Sciences*. 2016;368:138-9. IF: 2.126. Letter.

#### PRIZES AND DISTINCTIONS

- José Ángel Martínez Flores. Prize for the Best Presentation. 15th International Congress on Antiphospholipid Antibodies, At Cyprus, September 21-24, 2016.

## REGENERATIVE MEDICINE



#### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Noncompetitive	Various	1
<b>TOTAL</b>		<b>3</b>

- Title: Estudio traslacional de regeneración hepática de células mesenquimales de la placenta humana en un modelo de hepatectomía parcial.  
Principal Investigator: Ana Isabel Flores de la Cal  
Project No.: PI11/00581  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 30/12/2018
- Title: Estudio del papel de la alfa sinucleina y las células madre mesenquimales de placenta en la Enfermedad de Parkinson, una de las dos enfermedades neurodegenerativas más frecuentes.  
Principal Investigator: Ana Isabel Flores de la Cal  
Funding Body: Fundación Neurociencias y Envejecimiento, Fundación Francisco Soria Melguizo  
Start date: 01/02/2012  
End date: 31/01/2017
- Title: Estudio del efecto terapéutico del trasplante de las células madre mesenquimales obtenidas de la placenta en la mejora de la incontinencia urinaria de esfuerzo provocada por el parto.  
Principal Investigator: Ana Isabel Flores de la Cal  
Project No.: PI15/01803

### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Terapias avanzadas, génica y celular en hemofilia.  
Principal Investigator: Antonio Liras Martín  
Funding Body: Real Fundación "Victoria Eugenia" de Hemofilia  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Terapia génica "ex vivo" para hemofilia mediante vectores no virales en células madre adultas mesenquimales de tejido adiposo.  
Principal Investigator: Antonio Liras Martín  
Funding Body: Baxter BioScience (Holanda), Universidad Complutense de Madrid  
Start date: 2008  
End date: 2018
- Title: Terapia celular para hemofilias mediante células madre adultas mesenquimales de decidua de placenta humana.  
Principal Investigator: Antonio Liras Martín  
Funding Body: Octapharma, S.A.

### PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	4	15.340
<b>Total</b>	<b>4</b>	<b>15.340</b>

- Gonzalez C, Bonilla S, Flores AI, Cano E, Liste I. An Update on Human Stem Cell-Based Therapy in Parkinson's Disease. *Curr Stem Cell Res T*. 2016;11:561-8. IF: 2.645. Article.
- Paris JL, Torre P, Manzano M, Cabañas MV, Flores AI, Vallet-Regí M. Decidua-derived mesenchymal stem cells as carriers of mesoporous silica nanoparticles. In vitro and in vivo evaluation on mammary tumors. *Acta Biomaterialia*. 2016;33:275-82. IF: 6.008. Article.
- Olmedillas Lopez S, Garcia-Arranz M, Garcia-Olmo D, Liras A. Preliminary study on non-viral transfection of F9 (factor IX) gene by nucleofection in human adipose-derived mesenchymal stem cells. *PeerJ*. 2016;4:e1907. IF: 2.183. Article.
- Bravo B, Gallego MI, Flores AI, Bornstein R, Puente-Bedia A, Hernandez J, de la Torre P, Garcia-Zaragoza E, Perez-Tavare R, Grande J, Ballester A, Ballester S. Restrained Th17 response and myeloid cell infiltration into the central nervous system by human decidua-derived mesenchymal stem cells during experimental autoimmune encephalomyelitis. *Stem Cell Research & Therapy*. 2016;7:43. IF: 4.504. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

## ABDOMINAL ORGAN TRANSPLANT



### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Mutua Madrileña	2
<b>TOTAL</b>		<b>2</b>

- Title: Modelo predictivo de viabilidad de injerto hepático basado en factores histopatológicos, bioquímicos e inmunológicos en donante de corazón parado tipo II de Maastrich.  
Principal Investigator: Manuel Abradelo de Usera  
Project No.: FIMM 2011/0086  
Funding Body: Fundación Mutua Madrileña  
Start date: 21/06/2011  
End date: 31/07/2018

- Title: Utilización de fascia de recto mayor del abdomen en defectos mayores de pared abdominal. Estudio experimental y aplicación clínica.  
Principal Investigator: Carmelo Loinaz Segurola  
Project No.: FIMM 2013/0073  
Funding Body: Fundación Mutua Madrileña  
Start date: 25/09/2013  
End date: 25/09/2016

#### PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	12	46.864
Editorials	3	8.262
<b>Total</b>	<b>15</b>	<b>55.126</b>

- Calvo Pulido J, Manrique Municio M, Loinaz Segurola C, Justo Alonso I, Caso Maestro O, Garcia-Sesma A, Cambra Molero F, San-Juan Garrido R, Abradelo de Usera M, Marcacuzco Quinto A, Moreno Gonzalez E, Jimenez Romero C. Aortic Graft Mycotic Pseudoaneurysm as a Severe Complication After Multivisceral Transplantation: A Case Report. *Transplantation Proceedings*. 2016;48:539-42. IF: 0.867. Article.
- Alfaro J, Pérez D, Jiménez C, Serrano M, Martínez-Flores JA, Grau M, Sánchez-Zapardiel E, Paz-Artal E, Serrano A. Blockade of cell adhesion molecules enhances cell engraftment in a murine model of liver cell transplantation. *Transplant Immunology*. 2016;35:7-11. IF: 1.317. Article.
- Marcacuzco AA, Manrique A, Calvo J, Loinaz C, Justo I, Caso O, Cambra F, Fakih N, Sanabria R, Jimenez-Romero LC. Clinical implications of diverticular disease of the appendix. Experience over the past 10 years. *Cirugía Española*. 2016;94:44-7. IF: 1.000. Article.
- De Simone P, Romagnoli R, Tandoi F, Carrai P, Ercolani G, Peri E, Zamboni F, Mameli L, Di Benedetto F, Cillo U, De Carlis L, Lauterio A, Lupo L, Tisone G, Prieto M, Loinaz C, Mas A, Suddle A, Mutimer D, Roche B, Wartenberg-Demand A, Niemann G, Böhm H, Samuel D. Early Introduction of Subcutaneous Hepatitis B Immunoglobulin Following Liver Transplantation for Hepatitis B Virus Infection: A Prospective, Multicenter Study. *Transplantation*. 2016;100:1507-12. IF: 3.690. Article.
- Gómez-Cibeira E, Ivanovic-Barbeito Y, Gutiérrez-Martínez E, Morales E, Abradelo M, Hilario A, Ramos A, Ruiz-Morales J, Villarejo-Galende A. Eculizumab-related progressive multifocal leukoencephalopathy. *Neurology*. 2016;86:399-400. IF: 8.166. Article.
- ESCP Intestinal Failure Group, Vaizey CJ, Maeda Y, Barbosa E, Bozzetti F, Calvo J, Irtun Ø, Jeppesen PB, Klek S, Panisic-Sekeljic M, Papaconstantinou I, Pascher A, Panis Y, Wallace WD, Carlson G, Boermeester M.

- European Society of Coloproctology consensus on the surgical management of intestinal failure in adults. *Colorectal Disease*. 2016;18:535-48. IF: 2.452. Article.
- Agüero F, Forner A, Manzardo C, Valdivieso A, Blanes M, Barcena R, Rafecas A, Castells L, Abradelo M, Torre-Cisneros J, González-Díéguez L, Salcedo M, Serrano T, Jiménez-Pérez M, Herrero JL, Gastaca M, Aguilera V, Fabregat J, Del Campo S, Bilbao I, Romero CJ, Moreno A, Rimola A, Miro JM; FIPSE investigators. Human Immunodeficiency Virus Infection Does Not Worsen Prognosis of Liver Transplantation for Hepatocellular Carcinoma. *Hepatology*. 2016;63:488-98. IF: 11.711. Article.
- Silva JT, San-Juan R, Fernández-Caamaño B, Prieto-Bozano G, Fernández-Ruiz M, Lumbreras C, Calvo-Pulido J, Jiménez-Romero C, Resino-Foz E, López-Medrano F, Lopez-Santamaría M, Aguado JM. Infectious Complications Following Small Bowel Transplantation. *American Journal of Transplantation*. 2016;16:951-9. IF: 5.669. Article.
- Vieiro Medina MV, Diaz Perez D, Marcacuzco Quinto A, Dominguez Sanchez I, de la Fuente Bartolome M, Moreno Bargueiras A, Abradelo de Usera M, Jimenez LC. Inguinal hernia as rare presentation of pancreatic metastases. *Revista Hispanoamericana de Hernia*. 2016;4:73-5. IF: N/A. Article.
- Talayero P, Mancebo E, Calvo-Pulido J, Rodríguez-Muñoz S, Bernardo I, Laguna-Goya R, Cano-Romero FL, García-Sesma A, Loinaz C, Jiménez C, Justo I, Paz-Artal E. Innate Lymphoid Cells Groups 1 and 3 in the Epithelial Compartment of Functional Human Intestinal Allografts. *American Journal of Transplantation*. 2016;16:72-82. IF: 5.669. Article.
- Valencia Orgaz O, Real Navacerrada MI, Cortés Guerrero M, García Gutierrez AF, Marrón Fernández C, Pérez-Cerdá Silvestre F. Lung isolation in patients with previous lung resections: Selective sequential lobar blockade using a Fuji Uniblocker® endobronchial blocker. *Revista Española de Anestesiología y Reanimación*. 2016;63:539-43. IF: N/A. Article.
- Bermello Meza C, Caso O, Cobo C, Jiménez Romero C. Colo-uterine fistula due to colonic diverticulitis. Incidental radiological finding. *Cirugía Española*. 2016;94:48. IF: 1.000. Editorial Material.
- Lalueza A, Cambra F, Urbanowicz M, San Juan R, López-Alonso G, Aguado JM. Answer to July 2016 Photo Quiz. *Journal of Clinical Microbiology*. 2016;54:1935-6. IF: 3.631. Editorial Material.
- Lalueza A, Cambra F, Urbanowicz M, San Juan R, López-Alonso G, Aguado JM. Photo Quiz An Unexpected Cause of Progressive Anal Mass. *Journal of Clinical Microbiology*. 2016;54:1675. IF: 3.631. Editorial Material.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Mateos Rodríguez AA, Navalpotro Pascual JM, Peinado Vallejo F, Amado Belmonte A, Abradelo de Usera M, Rio Gallegos F. Mechanical chest compression devices improve survival of liver grafts from donors after cardiac death. *Resuscitation*. 2016;106:11-2. IF: 5.414. Letter.
- García-Gigorro R, Valiente-Fernández M, Granda-Nistal C, García-Gutiérrez A, Hernández F, Renes-Carreño E. Right coronary artery compression in the postoperative of an aortic intramural haematoma type A. Another mechanism of myocardial ischemia. *Medicina Intensiva*. 2016;40:129-31. IF: 1.193. Letter.

#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Edurne Álvaro Cifuentes  
**Title:** Fallo primario del injerto y colangiopatía isquémica en el trasplante hepático con donantes después de muerte cardiocirculatoria tipo II de Maastricht.  
**Director/s:** Manuel Abradelo de Usera, Luis Carlos Jiménez Romero, Enrique Moreno González  
**Date Defended:** 09/02/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Alberto Marcacuzco Quinto  
**Title:** Estudio comparativo entre enfermos trasplantados de páncreas-riñón simultáneo en diálisis peritoneal frente a hemodiálisis.  
**Director/s:** Luis Carlos Jiménez Romero, Alejandro Manrique Municio, Enrique Moreno González  
**Date Defended:** 01/04/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Félix Cambra Molero  
**Title:** Utilización de injertos hepáticos de donantes octogenarios en trasplante hepático. Análisis comparativo con injertos de donantes menores de 65 años.

## ORGAN TRANSPLANT AND INFECTION IN THE CRITICAL PATIENT



#### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	11	25.223
Reviews	1	3.827
Total	12	29.050

- Llompart-Pou JA, Chico-Fernández M, Sánchez-Casado M, Alberdi-Odriozola F, Guerrero-López F, Mayor-García MD, González-Robledo J, Ballesteros-Sanz MÁ, Herrán-Monge R, León-López R, López-Amor L, Bueno-González A; Trauma Neurointensive Care Working Group of the Spanish Society of Intensive Care Medicine (SEMICYUC). Age-related injury patterns in Spanish trauma ICU patients. *Results from the RETRAUCI*. *Injury*. 2016;47:61-5. IF: 1.910. Article.
- Sánchez-Izquierdo Riera JA, Montoiro Allué R, Tomasa Irriguiible T, Palencia Herrejón E, Cota Delgado F, Pérez Calvo C. Blood purification in the critically ill patient. Prescription tailored to the indication (including the

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- pediatric patient). *Medicina Intensiva*. 2016;40:434-47. IF: 1.193. Article.
- Olaechea PM, Álvarez-Lerma F, Palomar M, Gimeno R, Gracia MP, Mas N, Rivas R, Seijas I, Nuvials X, Catalán M; ENVIN-HELICS Study Group. Characteristics and outcomes of patients admitted to Spanish ICU: A prospective observational study from the ENVIN-HELICS registry (2006-2011). *Medicina Intensiva*. 2016;40:216-29. IF: 1.193. Article.
  - Álvarez-Lerma F, Marín-Corral J, Vila C, Masclans JR, González de Molina FJ, Martín Loeches I, Barbadillo S, Rodríguez A; H1N1 GETGAG/SEMICYUC Study Group. Delay in diagnosis of influenza A (H1N1) pdm09 virus infection in critically ill patients and impact on clinical outcome. *Critical Care*. 2016;20:337. IF: 4.950. Article.
  - Saez de la Fuente I, Saez de la Fuente J, Quintana Estelles MD, Garcia Gigorro R, Terceros Almanza LJ, Sanchez Izquierdo JA, Montejo Gonzalez JC. Enteral Nutrition in Patients Receiving Mechanical Ventilation in a Prone Position. *Journal of Parenteral and Enteral Nutrition*. 2016;40:250-5. IF: 3.517. Article.
  - Chico-Fernández M, Llompart-Pou JA, Guerrero-López F, Sánchez-Casado M, García-Sáez I, Mayor-García MD, Egea-Guerrero J, Fernández-Ortega JF, Bueno-González A, González-Robledo J, Servià-Goixart L, Roldán-Ramírez J, Ballesteros-Sanz MÁ, Tejerina-Alvarez E, Pino-Sánchez FI, Homar-Ramírez J; in representation of the Trauma and Neurointensive Care Working Group of the SEMICYUC. Mortality prediction using TRISS methodology in the Spanish ICU Trauma Registry (RETRAUCI). *Medicina Intensiva*. 2016;40:395-402. IF: 1.193. Article.
  - Rodríguez AH, Avilés-Jurado FX, Díaz E, Schuetz P, Trefler SI, Solé-Violán J, Cordero L, Vidaur L, Estella Á, Pozo Laderas JC, Socias L, Vergara JC, Zaragoza R, Bonastre J, Guerrero JE, Suberviola B, Cilloniz C, Restrepo MI, Martín-Loeches I; SEMICYUC/GETGAG Working Group. Procalcitonin (PCT) levels for ruling-out bacterial coinfection in ICU patients with influenza: A CHAID decision-tree analysis. *Journal of Infection*. 2016;72:143-51. IF: 4.382. Article.
  - Frade-Mera MJ, Regueiro-Díaz N, Díaz-Castellano L, Torres-Valverde L, Alonso-Pérez L, Landívar-Redondo MM, Muñoz-Pasín R, Terceros-Almanza LJ, Temprano-Vázquez S, Sánchez-Izquierdo-Riera JÁ. Un primer paso hacia una analgosedación más segura: evaluación sistemática de objetivos y grado de analgesia y sedación en el paciente crítico con ventilación mecánica. *Enfermería Intensiva*. 2016;27:155-67. IF: N/A. Article.
  - Chacón-Alves S, Pérez-Vela JL, Grau-Carmona T, Domínguez-Aguado H, Marín-Mateos H, Renes-Carreño E. Veno-arterial ECMO for rescue of severe airway hemorrhage with rigid bronchoscopy after pulmonary artery thromboendarterectomy. *International Journal of Artificial Organs*. 2016;39:242-4. IF: 1.005. Article.
  - Viejo Moreno R, Sánchez-Izquierdo Riera JÁ, Molano Álvarez E, Barea Mendoza JA, Temprano Vázquez S, Díaz Castellano L, Montejo González JC. Improvement of the safety of a clinical process using failure mode and effects analysis: Prevention of venous thromboembolic disease in critical patients. *Medicina Intensiva*. 2016;40:483-90. IF: 1.193. Article.
  - Barea-Mendoza JA, Antequera AM, Plana MN, Chico-Fernandez M, Muriel A, Saez I, Estrada-Lorenzo JM, Montejo-Gonzalez JC. Buffered Solutions versus Isotonic Saline for Resuscitation in Nonsurgical Critically Ill: Protocol for Cochrane Review. *Anesthesia and Analgesia*. 2016;123:1522-4. IF: 3.827. Review.
  - Chacón-Alves S, Chico-Fernández M, García-Fuentes C, Umezawa-Makikado L, Alted-López E, Montejo-González JC. Hemolysis following red cell concentrate transfusion in severe trauma patients. *Medicina Intensiva*. 2016;40:455-6. IF: 1.193. Letter.
  - Terceros-Almanza LJ, Barea-Mendoza J, Chico-Fernández M, García-Fuentes C, Navarro-Cutillas V, Alted-López E. Post-trauma pseudoaneurysm of the proximal innominate artery. *Medicina Intensiva*. 2016;40:186-8. IF: 1.193. Letter.
  - García-Gigorro R, Renes-Carreño E, Marín-Mateos H. The tricuspid annular plane systolic excursion strikes back Reply. *Journal of Thoracic and Cardiovascular Surgery*. 2016;152:1459-60. IF: 3.494. Letter.

# KIDNEY TRANSPLANT

## GROUP DIRECTOR

Andrés Belmonte, Amado

## RESEARCH GROUP MEMBERS

Auñón Rubio, M<sup>a</sup> Pilar  
 Bello Mimbrera, Tomás  
 Cebrián Espejo, M<sup>a</sup> Paz  
 Delgado Arranz, M<sup>a</sup> Isabel  
 García Santiago, Ana  
 Gutiérrez Solís, Elena  
 Hernández Vicente, Ana M<sup>a</sup>  
 Mercado Valdivia, Verónica Ruth

Molina Gómez, María  
 Nuño Santana, Enriqueta Isabel  
 Polanco Fernández, Natalia Inmaculada  
 Serrano Blanco, Manuel  
 Vázquez Guntin, Sofía  
 Vereda Rodríguez, Soledad

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	3
<b>TOTAL</b>		<b>4</b>

- Title: Trasplante renal con donantes y receptores de edad avanzada: desarrollo y validación de un score predictivo de supervivencia del injerto y del paciente.

Principal Investigator: Amado Andrés Belmonte

Funding Body: Fundación Mutua Madrileña

Start date: 29/08/2016

End date: 28/08/2019

- Title: Evaluación de las causas de no función primaria en los pacientes trasplantados de donantes fallecidos en asistolia no controlada (tipo II de Maastricht).

Principal Investigator: Amado Andrés Belmonte

Funding Body: Gambo Lundia AB

Start date: 01/08/2014  
 End date: 30/09/2015, extended to 30/06/2017

- Title: Evolución del injerto renal tras el rechazo agudo humoral.

Principal Investigator: Amado Andrés Belmonte

Funding Body: Asociación Investigación y Tratamiento Enfermedad Renal

Start date: 05/04/2013

End date: 30/09/2016

- Title: Paricalcitrol en el post-trasplante renal.

Principal Investigator: Amado Andrés Belmonte

Funding Body: Asociación Investigación y Tratamiento Enfermedad Renal  
 Start date: 26/04/2012

End date: 31/12/2015, extended to 29/02/2016

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	14	50.556
<b>Total</b>	<b>14</b>	<b>50.556</b>

- Alfaro J, Pérez D, Jiménez C, Serrano M, Martínez-Flores JÁ, Grau M, Sánchez-Zapardiel E, Paz-Artal E, Serrano A. Blockade of cell adhesion molecules enhances cell engraftment in a murine model of liver cell transplantation. *Transplant Immunology*. 2016;35:7-11. IF: 1.317. Article.
- Rubio-Navarro A, Carril M, Padro D, Guerrero-Hue M, Tarín C, Samaniego R, Cannata P, Cano A, Villalobos JM, Sevillano ÁM, Yuste C, Gutiérrez E, Praga M, Egido J, Moreno JA. CD163-Macrophages Are Involved in Rhabdomyolysis-Induced Kidney Injury and May Be Detected by MRI with Targeted Gold-Coated Iron Oxide Nanoparticles. *Theranostics*. 2016;6:896-914. IF: 8.854. Article.
- Martínez-Flores JA, Serrano M, Pérez D, Cámera A G, Lora D, Morillas L, Ayala R, Paz-Artal E, Morales JM, Serrano A. Circulating Immune Complexes of IgA Bound to Beta 2 Glycoprotein are Strongly Associated with the Occurrence of Acute Thrombotic Events. *Journal of Atherosclerosis and Thrombosis*. 2016;23:1242-53. IF: 2.411. Article.
- López-Medrano F, Fernández-Ruiz M, Silva JT, Carver PL, van Delden C, Merino E, Pérez-Saez MJ, Montero M, Coussemant J, de Abreu Mazzolin M, Cervera C, Santos L, Sabé N, Scemla A, Cordero E, Cruzado-Vega L, Martín-Moreno PL, Len Ó, Rudas E, Ponce de León A, Arriola M, Pérez D, Martínez-Flores JA, Serrano M, Lora D, Paz-Artal E, Morales JM, Serrano A. Evaluation of three fully automated immunoassay systems for detection of IgA anti-beta 2-glycoprotein I antibodies. *International Journal of Laboratory Hematology*. 2016;38:560-8. IF: 2.401. Article.
- Sánchez-Zapardiel E, Mancebo E, Díaz-Ordoñez M, de Jorge-Huerta L, Ruiz-Martínez L, Serrano A, Castro-Panete Lauzurica R, David M, González-Rico C, Henríquez-Palop F, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Moreno A, Carratalà J, Blanes M, Hernández D, Del Fariñas MC, Andrés A, Aguado JM. Clinical Presentation and Determinants of Mortality of Invasive Pulmonary Aspergillosis in Kidney Transplant Recipients: A Multinational Cohort Study. *American Journal of Transplantation*. 2016;16:3220-34. IF: 5.669. Article.
- Sánchez-Zapardiel E, Castro-Panete MJ, Mancebo E, Morales P, Laguna-Goya R, Morales JM, Apaza J, de Andrés A, Talayero P, Paz-Artal E. Early renal graft function deterioration in recipients with preformed anti-MICA antibodies: partial contribution of complement-dependent cytotoxicity. *Nephrology Dialysis Transplantation*. 2016; 31:150-60. IF: 4.085. Article.
- Pérez D, Martínez-Flores JA, Serrano M, Lora D, Paz-Artal E, Morales JM, Serrano A. Evaluation of three fully automated immunoassay systems for detection of IgA anti-beta 2-glycoprotein I antibodies. *International Journal of Laboratory Hematology*. 2016;38:560-8. IF: 2.401. Article.
- Sánchez-Zapardiel E, Mancebo E, Díaz-Ordoñez M, de Jorge-Huerta L, Ruiz-Martínez L, Serrano A, Castro-Panete

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MJ, Utrero-Rico A, de Andrés A, Morales JM, Domínguez-Rodríguez S, Paz-Artal E. Isolated De Novo Antiendothelial Cell Antibodies and Kidney Transplant Rejection. *American Journal of Kidney Diseases.* 2016;68:933-43. IF: 6.269. Article.

▪ Torres A, Torregrosa V, Marcen R, Campistol JM, Arias M, Hernández D, Fernández C, Esforzado N, Paschoalin R, Pérez N, García AI, Del Amo M, Pomés J, González Rinne A, Marrero D, Pérez E, Henríquez F, Díaz JM, Silva I, López V, Perello M, Ramos D, Beneyto I, Cruzado JM, Martínez Castelao A, Bravo J, Rodríguez M, Díaz C, Crespo J, Anaya F, Rodríguez ML, Cubero JJ, Pascual P, Romero R, Andrés Belmonte A, Checa MD, Jiménez C, Escuin F, Crespo M, Mir M, Gómez G, Bayes B, González MJ, Gutiérrez A, Cuberes M, Rodríguez Benoit A, García T, Llamas F, Ortega A, Conde JL, Gómez Alamillo C. Mineral metabolism disorders, vertebral fractures and aortic calcifications in stable kidney transplant recipients: The role of gender (EMITRAL study). *Nefrologia.* 2016;36:255-67. IF: 1.207. Article.

▪ Pérez-Jacoiste Asín MA, Fernández-Ruiz M, López-Medrano F, Aquilino C, González E, Ruiz-Merlo T, Gutiérrez E, San Juan R, Paz-Artal E, Andrés A, Aguado JM. Monitoring of intracellular adenosine triphosphate in CD4(+) T cells to predict the occurrence of cytomegalovirus disease in kidney transplant recipients. *Transplant International.* 2016;29:1094-105. IF: 2.835. Article.

▪ Dipalma T, Fernández-Ruiz M, Praga M, Polanco N, González E, Gutiérrez-Solis E, Gutiérrez E, Andrés A. Pre-transplant dialysis modality does not influence short-or long-term outcome in kidney transplant recipients: analysis of paired kidneys from the same deceased donor. *Clinical Transplantation.* 2016;30:1097-107. IF: 1.844. Article.

▪ Origüen J, Fernández-Ruiz M, López-Medrano F, Ruiz-Merlo T, González E, Morales JM, Fiorante S, San-Juan R, Villa J, Orellana MÁ, Andrés A, Aguado JM. Progressive increase of resistance in Enterobacteriaceae urinary isolates from kidney transplant recipients over the past decade: narrowing of the therapeutic options. *Transplant Infectious Disease.* 2016;18:575-84. IF: 1.459. Article.

▪ López-Medrano F, Silva JT, Fernández-Ruiz M, Carver PL, van Delden C, Merino E, Pérez-Saez MJ, Montero M,

Coussement J, de Abreu Mazzolin M, Cervera C, Santos L, Sabé N, Scemla A, Cordero E, Cruzado-Vega L, Martín PL, Len Ó, Rudas E, Ponce de León A, Arriola M, Lazurica R, David M, González-Rico C, Henríquez-Palop F, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Lumbreras C, Moreno A, Carratalà J, Blanes M, Hernández D, Hernández-Méndez EA, Fariñas MD, Perelló-Carrascosa M, Morales JM, Andrés A, Aguado JM; Spanish Network for Research in Infectious Diseases (REIPI), the Group for the Study of Infection in Transplant Recipients (GESITRA) of the Spanish Society of Clinical Microbiology and Infectious Diseases (SEIMC), the Study Group for Infections in Compromised Hosts (ESGICH) of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID), and the Swiss Transplant Cohort Study (STCS). Risk Factors Associated With Early Invasive Pulmonary Aspergillosis in Kidney Transplant Recipients: Results From a Multinational Matched Case-Control Study. *American Journal of Transplantation.* 2016;16:2148-57. IF: 5.669. Article.

▪ Origüen, J., Lopez-Medrano, F., Fernandez-Ruiz, M., Polanco, N., Gutierrez, E., Gonzalez, E., Merida, E., Ruiz-Merlo, T., Morales-Cartagena, A., Perez-Jacoiste Asin, A., Garcia-Reyne, A., San Juan, R., Orellana, M. A., Andres, A., Aguado, J. M.. Should Asymptomatic Bacteriuria Be Systematically Treated in Kidney Transplant Recipients? Results From a Randomized Controlled Trial. *American Journal of Transplantation.* 2016;16:2943-53. IF: 5.669. Article.

▪ Serrano M, Cabrera-Marante O, Martínez-Flores JA, Morales P, Pérez D, Mora S, García F, González E, Paz-Artal E, Morales JM, Serrano A. Study of beta(2)-Glycoprotein I Polymorphisms in Patients With Chronic Renal Failure as a Predisposing Factor for the Development of Anti-beta(2)-Glycoprotein I Auto-Antibodies. *Transplantation Proceedings.* 2016;48:2876-9. IF: 0.867. Article.

▪ Martinez-Flores JA, Serrano M, Morales JM, Serrano A. Antiphospholipid Syndrome and Kidney Involvement: New Insights. *Antibodies.* 2016;5(3):17. IF: N/A. Review.

▪ Fernández-Ruiz M, López-Medrano F, Allende LM, San Juan R, Andrés A, Aguado JM. Immune risk phenotype in kidney

transplant recipients: a reliable surrogate for premature immune senescence and increased susceptibility to infection? *Transplant Infectious Disease.* 2016;18:968-70. IF: 1.459. Letter.

▪ Mateos Rodríguez AA, Navalpotro Pascual JM, Peinado Vallejo F, Amado Belmonte A, Abradelo de Usera M, Rio Gallegos F. Mechanical chest compression devices improve

survival of liver grafts from donors after cardiac death. *Resuscitation.* 2016;106:11-2. IF: 5.414. Letter.

▪ Martín Navarro JA, Pedraza Cezón LA, de Pablos Martín MP, González Monte E, Polanco Fernández N, Gutiérrez Sánchez MJ, Petkov Stoyanov V. Treatment with sodium thiosulfate in calciphylaxis of topical active renal transplant patient. *Nefrologia.* 2016;36:579-81. IF: 1.207. Letter.

## **INFLAMMATORY DISEASES AND IMMUNE DISORDERS**



**COORDINATOR: JOSÉ LUIS PABLOS ÁLVAREZ**

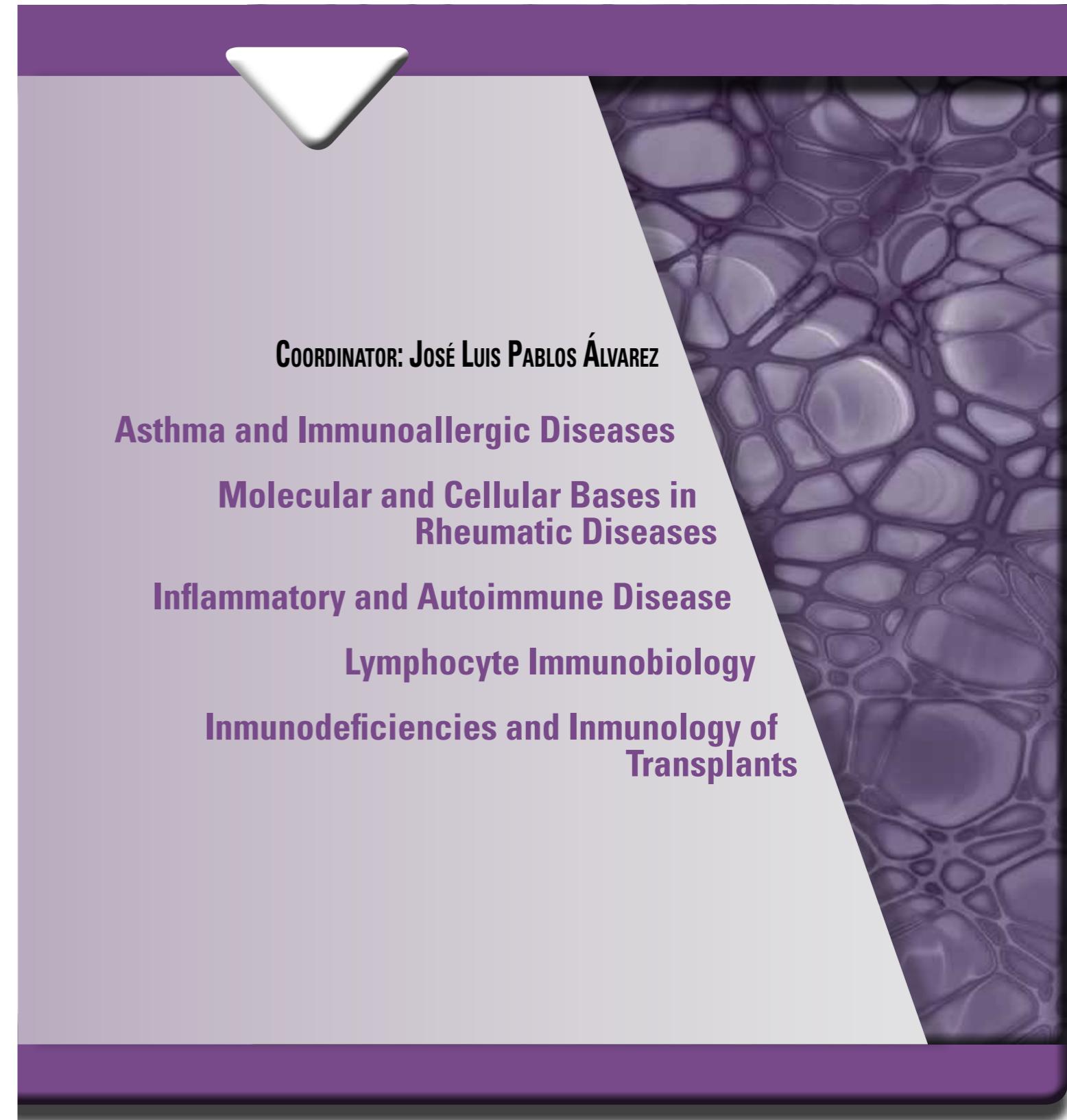
**Asthma and Immunoallergic Diseases**

**Molecular and Cellular Bases in  
Rheumatic Diseases**

**Inflammatory and Autoimmune Disease**

**Lymphocyte Immunobiology**

**Inmunodeficiencies and Immunology of  
Transplants**



# ASTHMA AND IMMUNOALLERGIC DISEASES

## GROUP DIRECTOR

Diéguez Pastor, M<sup>a</sup> del Carmen

## RESEARCH GROUP MEMBERS

Barranco Jiménez, Ruth  
 Bobolea Irina, Diana  
 Cabanillas Martín, Beatriz  
 de las Cuevas Moreno, Natividad  
 Enríquez Matas, Alicia  
 Fernández Crespo, Jesús  
 Fernández Rodríguez, Consuelo  
 García Hernández, Gloria  
 Gómez-Acebo Jericó, Francisca  
 Guillén Vera, Daiana  
 Herráez Herrera, Pilar de Lys  
 Luna Paredes, M<sup>a</sup> del Carmen  
 Mielgo Ballesteros, Ruth  
 Rodríguez Rodríguez, Julia  
 Sánchez Millán, M<sup>a</sup> Luisa  
 Troyano Rivas, Carmen  
 Vives Conesa, Ramón

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	MINECO	1
Competitive	ISCIII	1
<b>TOTAL</b>		<b>2</b>

Title: Efecto de procesado tecnológico combinando temperatura, presión y tratamientos enzimáticos sobre la reactividad alergénica de frutos secos (anacardo, pistacho y castaña).  
 Principal Investigator: M<sup>a</sup> del Carmen Diéguez Pastor  
 Project No.: AGL-2012-39863-C02-01  
 Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2013  
 End date: 31/12/2015, extended to 31/12/2016  
 Title: Identificación de biomarcadores no invasivos asociados a los distintos fenotipos y endotipos de asma descritos. Utilidad clínica y valor pronóstico de la piosinta, en vistas al tratamiento personalizado.  
 Principal Investigator: Irina Diana Bobolea

Project No.: PI14/00711  
 Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015  
 End date: 31/12/2017

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	4	14.807
Editorials	2	3.820
<b>Total</b>	<b>6</b>	<b>18.627</b>

- de Dios Caballero J, del Campo R, Royuela A, Sole A, Maiz L, Olveira C, Quintana-Gallego E, de Gracia J, Cobo M, de la Pedrosa E, Gomez G, Oliver A, Canton R, Sole A, Cortell I, Asensio O, Garcia G, Martinez MT, Cols M, Salcedo A, Vazquez C, Baranda F, Giron R, Quintana E, Delgado I, de Miguel MA, Garcia M, Oliva C, Prados MC, Barrio MI, Pastor MD, Olveira C, de Gracia J, Alvarez A, Escribano A, Castillo S, Figuerola J, Togores B, Oliver A, Lopez C, de Dios Caballero J, Tato M, Maiz L, Suarez L, Canton R; GEIFQ (Grupo Español para el Estudio de la Colonización/Infección Broncopulmonar en Fibrosis Quística). Bronchopulmonary infection-colonization patterns in Spanish cystic fibrosis patients: Results from a national multicenter study. *Journal of Cystic Fibrosis*. 2016;15:357-65. IF: 3.853. Article.
- Linacero R, Ballesteros I, Sanchiz A, Prieto N, Iniesto E, Martinez Y, Pedrosa MM, Muzquiz M, Cabanillas B, Rovira M, Burbano C, Cuadrado C. Detection by real time PCR of walnut allergen coding sequences in processed foods. *Food Chemistry*. 2016;202:334-40. IF: 4.052. Article.
- Antón-Pacheco JL, Luna C, García E, López M, Morante R, Tordable C, Palacios A, de Miguel M, Benavent I, Gómez A. Initial Experience With a New Biodegradable Airway Stent in Children: Is This the Stent We Were Waiting for?
- Belver MT, Michavila A, Bobolea I, Feito M, Bellón T, Quirce S. Severe delayed skin reactions related to drugs in the paediatric age group: A review of the subject by way of three cases (Stevens-Johnson syndrome, toxic epidermal necrolysis and DRESS). *Allergologia et Immunopathologia*. 2016;44:83-95. IF: 1.689. Review.
- Diaz Campos RM, Bobolea I, Banderas Montalvo ME, Melero Moreno C. Asthmatic granulomatosis A new

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

presentation or a new asthma phenotype? Annals of Allergy Asthma & Immunology. 2016;116:581. IF: 3.475. Letter.

- Bobolea I, Fernández Rodriguez C, Diaz-Campos R, Melero-Moreno C, Vives-Conesa R. Measuring total IgE is

useful in detecting exacerbations in patients with allergic bronchopulmonary aspergillosis receiving omalizumab. Journal of Allergy and Clinical Immunology-In Practice. 2016;4:361-3. IF: 5.429. Letter.

## MOLECULAR AND CELLULAR BASES IN RHEUMATIC DISEASES



### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Estudio de la contribución de VIP a la fisiopatología de las células Th17 y su utilización en el pronóstico y diagnóstico de enfermedades reumáticas.  
Principal Investigator: Rosa Mª Pérez Gomariz  
Project No.: PI12/00758  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2016, extended to 2017
- Title: Estudio de la expresión génica y mecanismos de regulación de la expresión de VIP y sus receptores en Artritis de Reciente Comienzo. Validación como marcador pronóstico.  
Principal Investigator: Carmen Martínez Mora  
Project No.: PI14/00477

Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2016, extended to 2017

- Title: Desarrollo y validación de un sistema de análisis de biomarcadores genéticos y/o epigenéticos para personalizar el tratamiento de enfermedades inflamatorias y autoinmunes.  
Principal Investigator: Rosa Mª Pérez Gomariz  
Project No.: RTC-2015-3562-1  
Funding Body: Ministerio de Economía y Competitividad (MINECO) - Proyecto Retos de colaboración con empresas  
Start date: 01/01/2015  
End date: 31/12/2018

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	4	16.366
<b>Total</b>	<b>4</b>	<b>16.366</b>

- Seoane IV, Ortiz AM, Piris L, Lamana A, Juarranz Y, García-Vicuña R, González-Álvaro I, Gomariz RP, Martínez C. Clinical Relevance of VPAC1 Receptor Expression in Early Arthritis: Association with IL-6 and Disease Activity. *PLoS One.* 2016;11(2):e0149141. IF: 3.057. Article.
- Pérez-García S, Gutiérrez-Cañas I, Seoane IV, Fernández J, Mellado M, Leceta J, Tío L, Villanueva-Romero R, Juarranz Y, Gomariz RP. Healthy and Osteoarthritic Synovial Fibroblasts Produce a Disintegrin and Metalloproteinase with Thrombospondin Motifs 4, 5, 7, and 12 Induction by IL-1 beta and Fibronectin and Contribution to Cartilage Damage. *American Journal of Pathology.* 2016;186:449-61. IF: 4.206. Article.
- Pérez-García S, Carrion M, Gutierrez-Canas I, Gonzalez-Alvaro I, Gomariz RP, Juarranz Y. VIP and CRF reduce ADAMTS expression and function in osteoarthritis synovial fibroblasts. *Journal of Cellular and Molecular Medicine.* 2016;20:678-87. IF: 4.938. Article.
- Carrión M, Pérez-García S, Martínez C, Juarranz Y, Estrada-Capetillo L, Puig-Kröger A, Gomariz RP, Gutiérrez-Cañas I. VIP impairs acquisition of the macrophage proinflammatory polarization profile. *Journal of Leukocyte Biology.* 2016;100:1385-93. IF: 4.165. Article.
- Rodriguez-Frade JM, Martinez-Munoz L, Villares R, Cascio G, Lucas P, Gomariz RP, Mellado M. Chemokine Detection Using Receptors Immobilized on an SPR Sensor Surface. *Methods in Enzymology.* 2016;570:1-18. IF: N/A. Review.

**PATENTS**

- **Title:** Método pronóstico de enfermedades autoinmunes mediante el genotipado de variantes genéticas del Peptido Intestinal Vasoactivo.
- **Type:** European patent. European application Number: EP15764662.1; PCT application Number: PCT/ES2015/070182; PCT publication Number: WO2015140375..

**Inventors:** Isidoro González Álvaro, Ana M. Ortiz García, Amalia Lamana Domínguez, Rosa Pérez Gomariz, Carmen Martínez Mora, Javier Leceta Martínez y Yasmina Juarranz Moratilla.

**Owners:** Fundación de Investigación Biomédica del Hospital Universitario La Princesa (51%) y Universidad Complutense de Madrid (49%).

**Date of priority:** 17 March 2014.

**Application no.:** P201430364.

**THESES DEFENDED OR DIRECTED IN THIS GROUP**

- **Candidate:** Selene Pérez García  
**Title:** El sinoviocito fibroblástico en la Artrosis: Efecto protector de VIP y CRF.  
**Director/s:** Rosa Mª Pérez Gomariz, Yasmina Juarranz Moratilla  
**Date Defended:** 17/06/2016  
**University:** Universidad Complutense de Madrid

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# INFLAMMATORY AND AUTOIMMUNE DISEASES

## RESEARCH GROUP MEMBERS

### GROUP DIRECTOR

Pablos Álvarez, José Luis

Carreira Delgado, Patricia Esmeralda  
Criado Carrasco, Gabriel del Rey Cerros, Manuel José  
Ergueta Carballo, Sandra Faré García, Regina Galindo Izquierdo, María García González, Alfredo Javier

García Herrero, Carmen M<sup>a</sup>  
Joven Ibáñez, Beatriz Esther Martín López, María Miranda Ramos, Vanesa Usategui Corral, Alicia Valín García, Álvaro

### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
<b>TOTAL</b>		<b>4</b>

- Title: Clinical Validation of Genetic Markers to Predict Persistent Remission in Rheumatoid Arthritis Patients Treated with Biological Therapy (REMRABIT). Principal Investigator: José Luis Pablos Álvarez (colaborador) Project No.: PMP15/00032 Funding Body: Instituto de Salud Carlos III (ISCIII) Start date: 22/07/2016 End date: 31/12/2018
- Title: La participación del estroma en la fisiopatología de las enfermedades inflamatorias crónicas como potencial factor de intervención. Principal Investigator: José Luis Pablos Álvarez Project No.: PI12/00439 Funding Body: Instituto de Salud Carlos III (ISCIII) Start date: 01/01/2013 End date: 31/12/2015, extended to 31/12/2016

- Title: Función de AKAP95 en los linfocitos T: implicaciones en la patología del Lupus Eritematoso Sistémico. Principal Investigator: Gabriel Criado Carrasco Project No.: PI11/00028 Funding Body: Instituto de Salud Carlos III (ISCIII) Start date: 01/01/2012 End date: 31/12/2014, extended to 01/06/2016

- Title: Activación de los linfocitos B en la Esclerosis Sistémica (Esclerodermia). Principal Investigator: Patricia Esmeralda Carreira Delgado Project No.: PI11/01506 Funding Body: Instituto de Salud Carlos III (ISCIII) Start date: 01/01/2012 End date: 30/12/2014, extended to 30/06/2016

### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	18	111.551
Reviews	1	3.946
<b>Total</b>	<b>19</b>	<b>115.497</b>

- Elhai M, Avouac J, Walker UA, Matucci-Cerinic M, Riemekasten G, Airò P, Hachulla E, Valentini G, Carreira PE, Cozzi F, Balbir Gurman A, Braun-Moscovici Y, Damjanov N, Ananieva LP, Scorza R, Jimenez S, Busquets J, Li M, Müller-Ladner U, Kahan A, Distler O, Allanore Y. A gender gap in primary and secondary heart dysfunctions in systemic sclerosis: a EUSTAR prospective study. *Annals of the Rheumatic Diseases*. 2016;75:163-9. IF: 12.384. Article.
- van den Hombergh WM, Carreira PE, Knaapen-Hans HK, van den Hoogen FH, Fransen J, Vonk MC. An easy prediction rule for diffuse cutaneous systemic sclerosis using only the timing and type of first symptoms and auto-antibodies: derivation and validation. *Rheumatology*. 2016; 55:2023-32. IF: 4.524. Article.
- Del Rey MJ, Fare R, Usategui A, Canete JD, Bravo B, Galindo M, Criado G, Pablos JL. CD271(+) stromal cells expand in arthritic synovium and exhibit a proinflammatory phenotype. *Arthritis Research & Therapy*. 2016;18:66. IF: 3.979. Article.
- Galindo-Izquierdo M, Rodriguez-Almaraz E, Pego-Reigosa JM, López-Longo FJ, Calvo-Alén J, Olivé A, Fernández-Nebro A, Martínez-Taboada V, Vela-Casasempere P, Freire M, Narváez FJ, Rosas J, Ibáñez-Barceló M, Uriarte E, Tomero E, Zea A, Horcada L, Torrente V, Castellvi I, Calvet J, Menor-Almagro R, Zamorano MA, Raya E, Díez-Álvarez E, Vázquez-Rodríguez T, García de la Peña P, Movasat A, Andreu JL, Richi P, Marras C, Montilla-Morales C, Hernández-Cruz B, Marenco de la Fuente JL, Gantes M, Úcar E, Alegre-Sancho JJ, Manero J, Ibáñez-Ruán J, Rodríguez-Gómez M, Quevedo V, Hernández-Beriaín J, Silva-Fernández L, Alonso F, Pérez S, Rúa-Figueroa I; RELESSER Group, from Spanish Society of Rheumatology Systemic Autoimmune Diseases Study Group (EASSER). Characterization of Patients With Lupus Nephritis Included in a Large Cohort From the Spanish Society of Rheumatology Registry of Patients With Systemic Lupus Erythematosus (RELESSER). *Medicine*. 2016;95(9):e2891. IF: 2.133. Article.
- Aragoneses-Fenoll L, Montes-Casado M, Ojeda G, Acosta YY, Herranz J, Martínez S, Blanco-Aparicio C, Criado G,

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Pastor J, Dianzani U, Portoles P, Rojo JM. ETP-46321, a dual p110 alpha/delta class IA phosphoinositide 3-kinase inhibitor modulates T lymphocyte activation and collagen-induced arthritis. *Biochemical Pharmacology*. 2016; 106:56-69. IF: 5.091. Article.
- Torrente-Segarra V, Salman-Monte TC, Rúa-Figueroa Í, Pérez-Vicente S, López-Longo FJ, Galindo-Izquierdo M, Calvo-Alén J, Olivé-Marqués A, Ibañez-Ruán J, Horcada L, Sánchez-Atrio A, Montilla C, Rodríguez-Gómez M, Díez-Álvarez E, Martínez-Taboada V, Andreu JL, Fernández-Berrizbeitia O, Hernández-Beriaín JA, Gantes M, Hernández-Cruz B, Pecondón-Español Á, Marras C, Bonilla G, Pego-Reigosa JM, RELESSER Study Group of the Spanish Society of Rheumatology (SER); Study Group of Systemic Autoimmune Diseases of the SER (EAS-SER). Fibromyalgia prevalence and related factors in a large registry of patients with systemic lupus erythematosus. *Clinical And Experimental Rheumatology*. 2016;34:40-7. IF: 2.495. Article.
- Gonzalo-Gil E, Perez-Lorenzo MJ, Galindo M, Diaz de la Guardia R, Lopez-Millan B, Bueno C, Menendez P, Pablos JL, Criado G. Human embryonic stem cell-derived mesenchymal stromal cells ameliorate collagen-induced arthritis by inducing host-derived indoleamine 2,3 dioxygenase. *Arthritis Research & Therapy*. 2016;18:77. IF: 3.979. Article.
- Ramirez J, Celis R, Usategui A, Ruiz-Esquide V, Fare R, Cuervo A, Sanmartí R, Pablos JL, Canete JD. Immunopathologic characterization of ultrasound-defined synovitis in rheumatoid arthritis patients in clinical remission. *Arthritis Research & Therapy*. 2016;18:74. IF: 3.979. Article.
- Wirz EG, Jaeger VK, Allanore Y, Riemekasten G, Hachulla E, Distler O, Airò P, Carreira PE, Tikly M, Vettori S, Balbir Gurman A, Damjanov N, Müller-Ladner U, Distler J, Li M, Häusermann P, Walker UA; EUSTAR coauthors. Incidence and predictors of cutaneous manifestations during the early course of systemic sclerosis: a 10-year longitudinal study from the EUSTAR database. *Annals of the Rheumatic Diseases*. 2016;75:1285-92. IF: 12.384. Article.
- Jaeger VK, Wirz EG, Allanore Y, Rossbach P, Riemekasten G, Hachulla E, Distler O, Airò P, Carreira PE, Balbir Gurman A, Tikly M, Vettori S, Damjanov N, Müller-Ladner U, Distler JH, Li M, Walker UA; EUSTAR co-authors. Incidences and Risk Factors of Organ Manifestations in the Early Course of Systemic Sclerosis: A Longitudinal EUSTAR Study. *PLoS One*. 2016;11(10):e0163894. IF: 3.057. Article.
- López-Mejías R, Genre F, Remuzgo-Martínez S, González-Juanatey C, Robustillo-Villarino M, Llorca J, Corrales A, Vicente E, Miranda-Filloy JA, Magro C, Tejera-Segura B, Ramírez-Huaranga MA, Pina T, Blanco R, Alegre-Sancho JJ, Raya E, Mijares V, Ubilla B, Mínguez Sánchez MD, Gómez-Vaquero C, Balsa A, Pascual-Salcedo D, López-Longo FJ, Carreira P, González-Álvaro I, Rodríguez-Rodríguez L, Fernández-Gutiérrez B, Ferraz-Amaro I, Castañeda S, Martín J, González-Gay MA. Influence of elevated-CRP level-related polymorphisms in non-rheumatic Caucasians on the risk of subclinical atherosclerosis and cardiovascular disease in rheumatoid arthritis. *Scientific Reports*. 2016;6:31979. IF: 5.228. Article.
- López-Isac E, Campillo-Davo D, Bossini-Castillo L, Guerra SG, Assassi S, Simeón CP, Carreira P, Ortego-Centeno N, García de la Peña P, Spanish Scleroderma Group, Beretta L, Santaniello A, Bellocchi C, Lunardi C, Moroncini G, Gabrielli A, Riemekasten G, Witte T, Hunzelmann N, Kreuter A, Distler JH, Voskuyl AE, de Vries-Bouwstra J, Herrick A, Worthington J, Denton CP, Fonseca C, Radstake TR, Mayes MD, Martín J. Influence of TYK2 in systemic sclerosis susceptibility: a new locus in the IL-12 pathway. *Annals of the Rheumatic Diseases*. 2016;75:1521-6. IF: 12.384. Article.
- López-Isac E, Martín JE, Assassi S, Simeón CP, Carreira P, Ortego-Centeno N, Freire M, Beltrán E, Narváez J, Alegre-Sancho JJ; Spanish Scleroderma Group, Fernández-Gutiérrez B, Balsa A, Ortiz AM, González-Gay MA, Beretta L, Santaniello A, Bellocchi C, Lunardi C, Moroncini G, Gabrielli A, Witte T, Hunzelmann N, Distler JH, Riekemasten G, van der Helm-van Mil AH, de Vries-Bouwstra J, Magro-Checa C, Voskuyl AE, Vonk MC, Molberg Ø, Merriman T, Hesselstrand R, Nordin A, Padyukov L, Herrick A, Eyre S, Koeleman BP, Denton CP, Fonseca C, Radstake TR, Worthington J, Mayes MD, Martín J. Brief Report: IRF4 Newly Identified as a Common Susceptibility Locus for Systemic Sclerosis and Rheumatoid Arthritis in a Cross-Disease Meta-Analysis of Genome-Wide Association Studies. *Arthritis & Rheumatology*. 2016;68:2338-44. IF: 6.009. Article.
- Avouac J, Walker UA, Hachulla E, Riemekasten G, Cuomo G, Carreira PE, Caramaschi P, Ananieva LP, Matucci-Cerinic M, Czirjak L, Denton C, Ladner UM, Allanore Y. Joint and tendon involvement predict disease progression in systemic sclerosis: a EUSTAR prospective study. *Annals of the Rheumatic Diseases*. 2016;75:103-9. IF: 12.384. Article.
- Ogando J, Tardáguila M, Díaz-Alderete A, Usategui A, Miranda-Ramos V, Martínez-Herrera DJ, de la Fuente L, García-León MJ, Moreno MC, Escudero S, Cañete JD, Toribio ML, Cases I, Pascual-Montano A, Pablos JL, Mañes S. Notch-regulated miR-223 targets the aryl hydrocarbon receptor pathway and increases cytokine production in macrophages from rheumatoid arthritis patients. *Scientific Reports*. 2016;6: 20223. IF: 5.228 - Article.
- Pego-Reigosa JM, Lois-Iglesias A, Rúa-Figueroa Í, Galindo M, Calvo-Alén J, de Uña-Álvarez J, Balboa-Barreiro V, Ibáñez Ruan J, Olivé A, Rodríguez-Gómez M, Fernández Nebro A, Andrés M, Erausquin C, Tomero E, Horcada Rubio L, Uriarte Isacelaya E, Freire M, Montilla C, Sánchez-Atrio Al, Santos-Soler G, Zea A, Díez E, Narváez J, Blanco-Alonso R, Silva-Fernández L, Ruiz-Lucea ME, Fernández-Castro M, Hernández-Beriaín JÁ, Gantes-Mora M, Hernández-Cruz B, Pérez-Venegas J, Pecondón-Español Á, Marras Fernández-Cid C, Ibáñez-Barcelo M, Bonilla G, Torrente-Segarra V, Castellví I, Alegre JJ, Calvet J, Marenco de la Fuente JL, Raya E, Vázquez-Rodríguez TR, Quevedo-Vila V, Muñoz-Fernández S, Otón T, Rahman A, López-Longo FJ. Relationship between damage clustering and mortality in systemic lupus erythematosus in early and late stages of the disease: cluster analyses in a large cohort from the Spanish Society of Rheumatology Lupus Registry. *Rheumatology*. 2016;55:1243-50. IF: 4.524. Article.
- Ferreiro-Iglesias A, Montes A, Perez-Pampin E, Cañete JD, Raya E, Magro-Checa C, Vasilopoulos Y, Sarafidou T, Caliz R, Ferrer MA, Joven B, Carreira P, Balsa A, Pascual-Salcedo D, Blanco FJ, Moreno-Ramos MJ, Fernández-Nebro A, Ordóñez MC, Alegre-Sancho JJ, Narváez J, Navarro-Sarabia F, Moreira V, Valor L, García-Portales R, Marquez A, Martín J, Gómez-Reino JJ, Gonzalez A. Replication of PTPRC as genetic biomarker of response to TNF inhibitors in patients with rheumatoid arthritis. *Pharmacogenomics Journal*. 2016;16:137-40. IF: 3.784. Article.
- Alonso A, Julià A, Vinaixa M, Domènech E, Fernández-Nebro A, Cañete JD, Ferrández C, Tornero J, Gisbert JP, Nos P, Casbas AG, Puig L, González-Álvaro I, Pinto-Tasende JA, Blanco R, Rodríguez MA, Beltran A, Correig X, Marsal S; IMID Consortium. Urine metabolome profiling of immune-mediated inflammatory diseases. *BMC Medicine*. 2016;14:133. IF: 8.005. Article.
- Melchor S, Joven BE, Andreu JL, Loza E, Garcia de Yebenes MJ, Carmona L, Carreira PE. Validation of the 2013 American College of Rheumatology/European League Against Rheumatism classification criteria for systemic sclerosis in patients from a capillaroscopy clinic. *Seminars in Arthritis and Rheumatism*. 2016;46:350-5. IF: 3.946. Review.
- Pablos Álvarez JL. The Research Network for Inflammation and Rheumatic Diseases (RIER). *Reumatología Clínica*. 2016; 12:121-2. IF: N/A. Editorial Material.

# LYMPHOCYTE IMMUNOBIOLOGY

## RESEARCH

### GROUP MEMBERS

#### GROUP DIRECTOR

Regueiro González-Barros, José Ramón

Briones Contreras, Alejandro  
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Roda Navarro, Pedro  
Torres Gómez, Álvaro  
Tortajada Alonso, Agustín

#### ACTIVE PROJECTS NOT MANAGED

#### BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Intra and extracellular T cell activation physiopathology.  
Investigadores Principales: José Ramón Regueiro González-Barros, Edgar Gonzalo Fernández-Malavé  
Project No.: SAF2014-52339-P  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 01/01/2015  
End date: 31/12/2017 (expected extension until 31/12/2018)

- Title: El papel de los microRNAs en enfermedades renales mediadas por el Sistema del Complemento.  
Principal Investigator: Elena Goicoechea de Jorge  
Project No.: SAF2014-52339-P

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Management Body: Fundación General UCM  
Start date: 01/01/2015  
End date: 31/12/2017 (expected extension until 31/12/2018)

Title: Papel de los linfocitos T no convencionales en la inflamación intestinal asociada a estrés de retículo endoplásmico.  
Principal Investigator: Eduardo Martínez Naves  
Project No.: PI13/00218

Funding Body: Instituto de Salud Carlos III (ISCIII)  
Management Body: Fundación General UCM  
Start date: 01/01/2014  
End date: 31/12/2017

- Title: Tolerance to mites and grass pollen with new vaccines.  
Principal Investigator: Pedro Antonio Reche Gallardo  
Project No.: Art 83 4155463  
Funding Body: CDTI  
Management Body: Fundación General UCM  
Start date: 01/10/2014  
End date: 31/12/2017 (prolonged)

- Title: Dual specificity phosphatases in T cells.  
Principal Investigator: Pedro Roda Navarro  
Project No.: SAF2016-75656-P  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 30/12/2016  
End date: 29/12/2020

- Title: Desarrollo de fármacos inmunoestimulantes bacterianos.  
Principal Investigator: Pedro Antonio Reche Gallardo  
Project No.: IPT2012-0639090000  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 01/01/2013  
End date: 31/10/2016 (extended twice)

- Title: Vaccine epitope prediction: application to rinoavirus.  
Principal Investigator: Pedro Antonio Reche Gallardo  
Project No.: BIO2014-54164-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 01/01/2015  
End date: 31/12/2017

- Title: New antitumoral vaccine based on Ca10.  
Principal Investigator: Manuel Gómez del Moral  
Project No.: RTC-2015-3805-1  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 01/07/2015  
End date: 30/09/2018

- Title: Complement physiopathology.  
Principal Investigator: Elena Goicoechea de Jorge  
Project No.: RYC-2013-13395  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 25/02/2015  
End date: 15/06/2020

- Title: Compound function of Jnk1 and Jnk2 in liver inflammation.  
Principal Investigator: Francisco Javier Cubero Palero  
Project No.: RYC-2014-15242  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: Fundación General UCM  
Start date: 01/06/2016  
End date: 31/05/2021

- Title: Inmunobiología Linfocitaria.  
Investigadores Principales: M<sup>a</sup> José Recio Hoyas, Manuel Gómez del Moral  
Funding Body: UCM  
Management Body: UCM  
Start date: 01/06/2015  
End date: 01/06/2017

- Title: Descubriendo la rápida dinámica molecular que goberna las funciones celulares.  
Principal Investigator: Pedro Roda Navarro  
Project No.: SAF2013-49743-EXP  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: UCM  
Start date: 01/09/2014  
End date: 31/12/2016

- Title: Regulación dinámica de la señalización por citocinas en linfocitos durante la inflamación.  
Principal Investigator: Pedro Roda Navarro  
Project No.: SAF2012-33218  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Management Body: UCM  
Start date: 01/01/2013  
End date: 31/12/2015 (prorroga hasta 31/07/2016)

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	7	56.914
Editorials	1	5.695
<b>Total</b>	<b>8</b>	<b>62.609</b>

- Valés-Gómez M, Esteso G, Aydogmus C, Blázquez-Moreno A, Marín AV, Briones AC, Garcillán B, García-Cuesta EM, Cobo SL, Haskoglu S, Moraru M, Cipe F, Dobbs K, Dogu F, Parolini S, Notarangelo LD, Vilches C, Recio MJ, Regueiro JR, Ikinciogullari A, Reyburn HT. Natural killer cell hyporesponsiveness and impaired development in a CD247-deficient patient. *Journal of Allergy and Clinical Immunology*. 2016;137:942-5. IF: 12.485. Letter.

**THESES DEFENDED OR DIRECTED IN THIS GROUP**

- Candidate:** Miguel Muñoz Ruiz  
**Title:** Papel del TCR en el desarrollo y función de los linfocitos T  $\gamma\delta$  efectores.  
**Director/s:** José Ramón Regueiro González-Barros, Edgar Gonzalo Fernández Malavé, Bruno Silva-Santos  
**Date Defended:** 15/07/2016  
**University:** Universidad Complutense de Madrid

**PRIZES AND DISTINCTIONS**

- Prize from the German Foundation for the Study of the Liver 2016 (Deutsche Leberstiftung).  
Winner: Francisco Javier Cubero Palero.

- Ruiz-Margáin A, Macías-Rodríguez RU, Ampuero J, Cubero FJ, Chi-Cervera L, Ríos-Torres SL, Duarte-Rojo A, Espinosa-Cuevas Á, Romero-Gómez M, Torre A. Low phase angle is associated with the development of hepatic encephalopathy in patients with cirrhosis. *World Journal of Gastroenterology*. 2016;22:10064-70. IF: 2.787. Article.
- Recalde S, Tortajada A, Subias M, Anter J, Blasco M, Maranta R, Coco R, Pinto S, Noris M, Garcia-Layana A, Rodriguez de Cordoba S. Molecular Basis of Factor H R1210C Association with Ocular and Renal Diseases. *Journal of the American Society of Nephrology*. 2016; 27:1305-11. IF: 8.491. Article.
- Sirvent S, Soria I, Cirauqui C, Cases B, Manzano AI, Diez-Rivero CM, Reche PA, López-Relaño J, Martínez-Naves E, Cañada FJ, Jiménez-Barbero J, Subiza J, Casanova M, Fernández-Caldas E, Subiza JL, Palomares O. Novel vaccines targeting dendritic cells by coupling allergoids to nonoxidized mannan enhance allergen uptake and induce functional regulatory T cells through programmed death ligand 1. *Journal of Allergy and Clinical Immunology*. 2016;138:558. IF: 12.485. Article.
- Moreno A, Pineda F, Alcover J, Rodríguez D, Palacios R, Martínez-Naves E. Orthologous Allergens and Diagnostic Utility of Major Allergen Alt a 1. *Allergy Asthma & Immunology Research*. 2016;8:428-37. IF: 2.309. Article.
- Muñoz-Ruiz M, Ribot JC, Grossi AR, Gonçalves-Sousa N, Pamplona A, Pennington DJ, Regueiro JR, Fernández-Malavé E, Silva-Santos B. TCR signal strength controls thymic differentiation of discrete proinflammatory gamma delta T cell subsets. *Nature Immunology*. 2016;17:721. IF: 19.381. Article.
- Sheikh QM, Gatherer D, Reche PA, Flower DR. Towards the knowledge-based design of universal influenza epitope ensemble vaccines. *Bioinformatics*. 2016;32:3233-9. IF: 5.766. Article.
- Ramirez-Munoz R, Castro-Sánchez P, Roda-Navarro P. Ultrasensitivity in the Cofilin Signaling Module: A Mechanism for Tuning T Cell Responses. *Frontiers in Immunology*. 2016;7:59. IF: 5.695. Article.
- Alcover A, Di Bartolo V, Roda-Navarro P. Editorial: Molecular dynamics at the immunological Synapse. *Frontiers in Immunology*. 2016;7: 632. IF: 5.695. Editorial Material.
- Martínez-Saavedra MT, García-Gomez S, Domínguez Acosta A, Mendoza Quintana JJ, Páez JP, García-Reino EJ, Camps G, Martínez-Barricarte R, Itan Y, Boisson B, Sánchez-Ramón S, Regueiro JR, Casanova JL, Rodríguez-Gallego C, Pérez de Diego R. Gain-of-function mutation in PIK3R1 in a patient with a narrow clinical phenotype of respiratory infections. *Clinical Immunology*. 2016;173:117-20. IF: 4.034. Letter.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

# INMUNODEFICIENCIES AND INMUNOLOGY OF TRANSPLANTS



## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	2
<b>TOTAL</b>		<b>7</b>

- Title: Impacto del tratamiento antirretroviral en el SNC del paciente pediátrico con infección VIH. Correlación con neuroimagen y perfil neurocognitivo.  
Principal Investigator: Mª Isabel González Tomé  
Project No.: PI15/00694  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 30/12/2014, extended to 30/06/2016
- Title: Evaluación neurocognitiva y psicológica de una cohorte de niños y adolescentes con infección VIH por transmisión vertical.  
Principal Investigator: Mª Isabel González Tomé  
Project No.: FMM 2012/0077  
Funding Body: Fundación Mutua Madrileña  
Start date: 11/07/2012  
End date: 31/12/2014, extended to 30/06/2016
- Title: Definición de respuestas locales y periféricas relacionadas con la evolución del trasplante intestinal clínico.  
Principal Investigator: Estela Paz Artal  
Project No.: PI13/01407  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016, extended to 31/12/2017
- Title: Coinfecciones respiratorias virales y de la expresión de perfiles genómicos transcripcionales en la gravedad de la tos ferina en lactantes.  
Principal Investigator: Jesús Ruiz Contreras  
Project No.: PI13/01296  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016
- Title: Mecanismos de regulación de la activación de linfocitos T humanos y sus implicaciones en la citotoxicidad y la autoinmunidad.  
Principal Investigator: Luis Miguel Allende Martínez

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	30	86.017
<b>Total</b>	<b>30</b>	<b>86.017</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Gallego-Bustos F, Gotea V, Ramos-Amador JT, Rodríguez-Peña R, Gil-Herrera J, Sastre A, Delmiro A, Rai G, Elnitski L, González-Granado LI, Allende LM. A Case of IL-7R Deficiency Caused by a Novel Synonymous Mutation and Implications for Mutation Screening in SCID Diagnosis. *Frontiers in Immunology*. 2016;7:443. IF: 5.695. Article.
- Torralba-Morón A, Urbanowicz M, Ibarrola-De Andres C, Lopez-Alonso G, Colina-Ruizdelgado F, Guerra-Vales JM. Acute Small Bowel Obstruction and Small Bowel Perforation as a Clinical Debut of Intestinal Endometriosis: A Report of Four Cases and Review of the Literature. *Internal Medicine*. 2016;55:2595-9. IF: 0.832. Article.
- Martínez-Feito A, Melero J, Mora-Díaz S, Rodríguez-Vigil C, Elduayen R, González-Granado LI, Pérez-Méndez D, Sánchez-Zapardiel E, Ruiz-García R, Menchén M, Díaz-Madroñero J, Paz-Artal E, Del Orbe-Barreto R, Riñón M, Allende LM. Autoimmune lymphoproliferative syndrome due to somatic FAS mutation (ALPS-sFAS) combined with a germline caspase-10 (CASP10) variation. *Immunobiology*. 2016;221:40-7. IF: 2.781. Article.
- Alfaro J, Pérez D, Jiménez C, Serrano M, Martínez-Flores JA, Grau M, Sánchez-Zapardiel E, Paz-Artal E, Serrano A. Blockade of cell adhesion molecules enhances cell engraftment in a murine model of liver cell transplantation. *Transplant Immunology*. 2016;35:7-11. IF: 1.317. Article.
- Martínez-Flores JA, Serrano M, Pérez D, Cámera A G, Lora D, Morillas L, Ayala R, Paz-Artal E, Morales JM, Serrano A. Circulating Immune Complexes of IgA Bound to Beta 2 Glycoprotein are Strongly Associated with the Occurrence of Acute Thrombotic Events. *Journal of Atherosclerosis and Thrombosis*. 2016;23:1242-53. IF: 2.411. Article.
- Baro Fernandez M, Perez Alonso V. Conventional chemotherapy and perspectives for molecular-based oncological treatment in pediatric hemispheric low-grade gliomas. *Childs Nervous System*. 2016;32:1939-45. IF: 1.080. Article.
- Medin G, García-Navarro C, Navarro Gomez M, Ramos Amador JT, Mellado MJ, Jimenez S, Muñoz-Fernández MA, Rojo Conejo P, Saavedra J, García Hortelano M, Guillén S, González-Tomé MI. Disease disclosure, treatment adherence, and behavioural profile in a cohort of vertically acquired HIV-infected adolescents. *NeuroCoRISpeS study*. *AIDS Care*. 2016;28:124-30. IF: 1.902. Article.
- Sánchez-Zapardiel E, Castro-Panete MJ, Mancebo E, Morales P, Laguna-Goya R, Morales JM, Apaza J, de Andrés A, Talayero P, Paz-Artal E. Early renal graft function deterioration in recipients with preformed anti-MICA antibodies: partial contribution of complement-dependent cytotoxicity. *Nephrology Dialysis Transplantation*. 2016;31:150-60. IF: 4.085. Article.
- Domínguez-Pinilla N, Martínez de Aragón A, Diéguez Tapias S, Toldos O, Hinojosa Bernal J, Rigal Andrés M, González-Granado LI. Evaluating the apparent diffusion coefficient in MRI studies as a means of determining paediatric brain tumour stages. *Neurologia*. 2016;31:459-65. IF: 1.790. Article.
- Pérez D, Martínez-Flores JA, Serrano M, Lora D, Paz-Artal E, Morales JM, Serrano A. Evaluation of three fully automated immunoassay systems for detection of IgA anti-beta 2-glycoprotein I antibodies. *International Journal of Laboratory Hematology*. 2016;38:560-8. IF: 2.401. Article.
- Polo R, Blanch J, Locutura J, Arazo P, Bachiller P, Bayon C, Estrada V, Fernández JL, Fumaz C, Galindo MJ, Tomé MG, Iribarren JA, Lozano F, Mariño A, Mellado MJ, Muñoz-Moreno JA, Navarro ML, Navinés R, Prieto JF, Rojo A, Rousaud A, Hernandez JS, Santos J, Tuset M; Experts Panel from the Secretary of the National AIDS Plan (SPNS); Spanish Society of Psychiatry (SEP); AIDS Study Group (GeSIDA); Spanish Society of Pediatric Infectious Diseases (SEIP). Executive summary of the consensus document on psychiatric and psychological aspects in adults and children with HIV infection. *Enfermedades Infecciosas y Microbiología Clínica*. 2016;34:54-60. IF: 1.530. Article.
- Schmidt J, Gong S, Marafioti T, Mankel B, Gonzalez-Farre B, Balagué O, Mozos A, Cabeçadas J, van der Walt J, Hoehn D, Rosenwald A, Ott G, Dojcinov S, Egan C, Nadeau F, Ramis-Zaldívar JE, Clot G, Bárcena C, Pérez-Alonso V, Endris V, Penzel R, Lome-Maldonado C, Bonzheim I, Fend F, Campo E, Jaffe ES, Salaverria I, Quintanilla-Martinez L. Genome-wide analysis of pediatric-type follicular lymphoma reveals low genetic complexity and recurrent alterations of TNFRSF14 gene. *Blood*. 2016;128:1101-11. IF: 11.847. Article.
- Boix F, Millan O, Segundo DS, Mancebo E, Rimola A, Fabrega E, Fortuna V, Mrowiec A, Castro-Panete MJ, Peña J, Llorente S, Minguela A, Bolarín JM, Paz-Artal E, López-Hoyos M, Brunet M, Muro M. High expression of CD38, CD69, CD95 and CD154 biomarkers in cultured peripheral T lymphocytes correlates with an increased risk of acute rejection in liver allograft recipients. *Immunobiology*. 2016;221:595-603. IF: 2.781. Article.
- Boix-Giner F, Millan O, San Segundo D, Muñoz-Cacho P, Mancebo E, Llorente S, Rafael-Valdivia L, Rimola A, Fábrega E, Mrowiec A, Allende L, Minguela A, Bolarín JM, Paz-Artal E, López-Hoyos M, Brunet M, Muro M. High frequency of central memory regulatory T cells allows detection of liver recipients at risk of early acute rejection within the first month after transplantation. *International Immunology*. 2016;28:55-64. IF: 3.031. Article.
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- Talayero P, Mancebo E, Calvo-Pulido J, Rodríguez-Muñoz S, Bernardo I, Laguna-Goya R, Cano-Romero FL, García-Sesma A, Loinaz C, Jiménez C, Justo I, Paz-Artal E. Innate Lymphoid Cells Groups 1 and 3 in the Epithelial Compartment of Functional Human Intestinal Allografts. *American Journal of Transplantation*. 2016;16:72-82. IF: 5.669. Article.
- Sánchez-Zapardiel E, Mancebo E, Díaz-Ordoñez M, de Jorge-Huerta L, Ruiz-Martínez L, Serrano A, Castro-Panete MJ, Utrero-Rico A, de Andrés A, Morales JM, Domínguez-Rodríguez S, Paz-Artal E. Isolated De Novo Antiendothelial Cell Antibodies and Kidney Transplant Rejection. *American Journal of Kidney Diseases*. 2016;68:933-43. IF: 6.269. Article.
- German Diaz M, Pavo Garcia R, Blazquez Gamero D, Gonzalez-Tome MI, Cedena Romero P, Marin Ferrer M, Ruiz Contreras J. Lack of Accuracy of Biomarkers and Physical Examination to Detect Bacterial Infection in Febrile Infants. *Pediatric Emergency Care*. 2016;32:664-8. IF: 0.923. Article.
- Espiau M, Yeste D, Noguera-Julian A, González-Tomé MI, Falcón-Neyra L, Gavilán C, Navarro-Gómez ML, Mellado-Peña MJ, Gracia-Casanova M, Colino-Gil ME, Méndez M, Ciria Calavia LM, Fortuny C, Carrascosa A, Soler-Palacín P; CoRISpe-MetS Working Group. Metabolic Syndrome in Children and Adolescents Living with HIV. *Pediatric Infectious Disease Journal*. 2016;35:171-6. IF: 2.587. Article.
- Pérez-Jacoiste Asín MA, Fernández-Ruiz M, López-Medrano F, Aquilino C, González E, Ruiz-Merlo T, Gutiérrez E, San Juan R, Paz-Artal E, Andrés A, Aguado JM. Monitoring of intracellular adenosine triphosphate in CD4(+)T cells to predict the occurrence of cytomegalovirus disease in kidney transplant recipients. *Transplant International*. 2016;29:1094-105. IF: 2.835. Article.
- Guijarro-Castro C, Sanchez-Zapardiel E, Munoz D, Fernandez O, Leyva L, Castro-Panete MJ, Picon-Munoz C, Talise M, Martinez-Feito A, Paz-Artal E. Month of birth, HLA-DRB1\*15 locus and risk of multiple sclerosis in offspring. *Revista de Neurologia*. 2016;63:201-5. IF: 0.684. Article.
- Sánchez-Ramón S, de Gracia J, García Alonso AM, Rodríguez Molina JJ, Melero J, de Andrés A, García Ruiz de Morales JM, Ferreira A, Ocejo G, Cid JJ, García Martínez JM, Lasheras T, Vargas ML, Gil J, García Rodríguez MC, Castañer JL, González Granado LI, Allende L, Soler-Palacín P, Herraiz L, Lopez Hoyos M, Bellón JM, Silva G, Gurbido DM, Carbone J, Rodríguez-Sáinz C, Matamoros N, Parker AR, Fernández-Cruz E; EMPATHY group. Multicenter study for the evaluation of the

- antibody response against salmonella typhi Vi vaccination (EMPATHY) for the diagnosis of Anti-polysaccharide antibody production deficiency in patients with primary immunodeficiency. *Clinical Immunology*. 2016;169:80-4. IF: 4.034. Article.
- Falcon-Neyra L, Palladino C, Navarro Gómez ML, Soler-Palacín P, González-Tomé MI, De Ory SJ, Frick MA, Fortuny C, Noguera-Julian A, Moreno EB, Santos JL, Olbrich P, López-Cortés LF, Briz V, Neth O; CoRISpe working group. Off-label use of rilpivirine in combination with emtricitabine and tenofovir in HIV-1-infected pediatric patients: A multicenter study. *Medicine*. 2016;95(24):e3842. IF: 2.133. Article.
- Santiago-García B, Blázquez-Gamero D, Baquero-Artigao F, Ruiz-Contreras J, Bellón JM, Muñoz-Fernández MA, Mellado-Peña MJ; EREMITA Study Group. Pediatric Extrapolmonary Tuberculosis Clinical Spectrum, Risk Factors and Diagnostic Challenges in a Low Prevalence Region. *Pediatric Infectious Disease Journal*. 2016; 35:1175-81. IF: 2.587. Article.
- Fernández-Ruiz M, Silva JT, López-Medrano F, Allende LM, San Juan R, Cambra F, Justo I, Paz-Artal E, Jiménez C, Aguado JM. Post-transplant monitoring of NK cell counts as a simple approach to predict the occurrence of opportunistic infection in liver transplant recipients. *Transplant Infectious Disease*. 2016;18:552-65. IF: 1.459. Article.
- Cuerda C, Alvarez J, Ramos P, Abanades JC, García-de-Lorenzo A, Gil P, de-la-Cruz JJ; DREAM 65 Study. Prevalence of malnutrition in subjects over 65 years of age in the Community of Madrid. The DREAM+65 Study. *Nutricion Hospitalaria*. 2016;33:263-9. IF: 1.497. Article.
- de Felipe B, Olbrich P, Lucenas JM, Delgado-Pecellin C, Pavon-Delgado A, Marquez J, Salamanca C, Soler-Palacin P, Gonzalez-Granado LI, Antolin LF, Borte S, Neth O. Prospective neonatal screening for severe T- and B-lymphocyte deficiencies in Seville. *Pediatric Allergy and Immunology*. 2016;27:70-7. IF: 3.947. Article.

- Soriano-Ramos M, Martínez-Del Val E, Negreira Cepeda S, González-Tomé MI, Cedena Romero P, Fernández-Cooke E, Albert de la Torre L, Blázquez-Gamero D. Risk of coronary artery involvement in Kawasaki disease. *Archivos Argentinos de Pediatría*. 2016;114:107-13. IF: 0.530. Article.
- Serrano M, Cabrera-Marante O, Martínez-Flores JA, Morales P, Pérez D, Mora S, García F, González E, Paz-Artal E, Morales JM, Serrano A. Study of beta(2)-Glycoprotein I Polymorphisms in Patients With Chronic Renal Failure as a Predisposing Factor for the Development of Anti-beta(2)-Glycoprotein I Auto-Antibodies. *Transplantation Proceedings*. 2016;48:2876-9. IF: 0.867. Article.
- de Inocencio J, Enriquez-Merayo E, Casado R, Gonzalez-Granado LI. Subcutaneous Immunoglobulin in Refractory Juvenile Dermatomyositis. *Pediatrics*. 2016;137(4).pii: e20153537. IF: 5.196. Article.
- Fernández-Ruiz M, López-Medrano F, Allende LM, San Juan R, Andrés A, Aguado JM. Immune risk phenotype in kidney transplant recipients: a reliable surrogate for premature immune senescence and increased susceptibility to infection? *Transplant Infectious Disease*. 2016;18:968-70. IF: 1.459. Letter.
- Fernández-Ruiz M, López-Medrano F, San Juan R, Allende LM, Paz-Artal E, Aguado JM. Low Natural Cell Counts and Risk of Invasive Fungal Disease After Solid Organ Transplantation. *Journal of Infectious Diseases*. 2016;213:873-4. IF: 6.344. Letter.
- Delgado-Márquez AM, Zarco C, Ruiz R, Simarro A, Vanaclocha F. Severe disseminated primary herpes simplex infection as skin manifestation of GATA2 deficiency. *Journal of the European Academy of Dermatology and Venereology*. 2016;30:1248-50. IF: 3.029. Letter.
- Gonzalez-Granado LI, Dominguez-Pinilla N, Gallego-Bustos F, Ruiz-Contreras J, Allende LM. Visceral Leishmaniasis May Unmask X-linked Hyper-IgM Syndrome. *Journal of Clinical Immunology*. 2016;36:363-5. IF: 3.094. Letter.

## THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** María Baro Fernández  
**Title:** Predicción del riesgo de infección grave en niños con neutropenia febril secundaria a quimioterapia.  
**Director/s:** Jesús Ruiz Contreras  
**Date Defended:** 12/01/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Begoña Santiago García  
**Title:** Perfil epidemiológico y clínico de la tuberculosis en niños de la Comunidad Autónoma de Madrid.  
**Director/s:** Jesús Ruiz Contreras, Mª José Mellado Peña  
**Date Defended:** 09/02/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Mª del Pilar Quijada Fraile  
**Title:** Evolución y seguimiento en pacientes detectados en el nuevo cribado de la Comunidad de Madrid.  
**Director/s:** Jesús Ruiz Contreras, Mª Teresa García Silva, Elena Dulín Íñiguez  
**Date Defended:** 08/03/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Elena Sánchez Zapardiel  
**Title:** Significado de los anticuerpos anti-MICA y anti-endoteliales en la evolución del trasplante renal.  
**Director/s:** Estela Paz Artal  
**Date Defended:** 19/12/2016  
**University:** Universidad Complutense de Madrid

## PATENTS

- Title:** ARN de interferencia para el tratamiento del síndrome linfoproliferativo autoinmune de tipo 1A.  
**Inventors:** Estela Paz Artal, Esther Mancebo Sierra.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).  
**Spanish Patent Application No.:** P 201430504.  
**Date of application:** 04/04/2014

## **INFECTIOUS DISEASES AND AIDS**

**COORDINATOR: RAFAEL DELGADO VÁZQUEZ**

**Virology-HIV/AIDS**

**Molecular Epidemiology of Hospital  
and Emerging Infections**

**Translational Research in Leishmaniasis**

**Translational Research in Malaria**

**Infectious Pathologies**



# VIROLOGY-HIV/AIDS

## GROUP DIRECTOR

Delgado Vázquez, Rafael

## RESEARCH

### GROUP MEMBERS

Barrio de la Mota, Adelina  
 Bermejo Plaza, Laura  
 Bisbal Pardo, Otilia  
 Brañas García, Patricia  
 de Lagarde Sebastián, María  
 Domínguez Domínguez, Lourdes  
 Folgueira López, M<sup>a</sup> Dolores  
 García Álvarez, Mónica  
 Gutiérrez Cueto, Francisca  
 Hernando Jerez, Asunción  
 Luczkowiak, Joanna Aleksandra  
 Matarranz del Amo, Mariano  
 Morales de la Cal, Mercedes  
 Pérez Girón, José Vicente  
 Prieto Pérez, Columbiana  
 Pulido Ortega, Federico  
 Rubio García, Rafael  
 Sierra Tomillo, Olalla  
 Tamayo Caro, Miguel  
 Taravillo Cañete, Irene  
 Zurita Salas, M<sup>a</sup> del Sagrario

Start date: 01/01/2014  
 End date: 30/12/2016, extended to 30/06/2018

- Title: Identificación y caracterización de anticuerpos monoclonales frente al virus Ébola para aplicaciones diagnósticas y terapéuticas.

Principal Investigator: Rafael Delgado Vázquez  
 Project No.: DTS15/00171  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2016  
 End date: 31/12/2017

- Title: VIRUSCAN.

Principal Investigator: Rafael Delgado Vázquez  
 Funding Body: Commission of the European Communities  
 Start date: 01/10/2016  
 End date: 30/09/2021

- Title: DxM system CMV/ HCV/ HBV and HIV-1 assay beta study.

Principal Investigator: Rafael Delgado Vázquez  
 Funding Body: Immunotech  
 Start date: 03/07/2014  
 End date: 02/07/2017

- Title: Proyecto Cohorte de pacientes con infección VIH (COHORTE VIH-DOC).

Principal Investigator: Rafael Rubio García  
 Funding Body: Merck Sharp Dohme España, S.A.  
 Start date: 09/07/2010  
 End date: 31/12/2015, extended to 31/01/2017

- Title: Nuevas estrategias de tratamiento para la infección por el virus Ébola: caracterización de anticuerpos neutralizantes e inhibidores de entrada celular.

Principal Investigator: Rafael Delgado Vázquez  
 Funding Body: Francisco Soria Melguizo, S.A.  
 Start date: 24/09/2015  
 End date: 23/09/2018

- Title: Estudio de cohorte de pacientes con infección por VIH del Hospital 12 de Octubre de Madrid (Cohorte VIH-DOC).

Principal Investigator: Rafael Rubio García  
 Funding Body: Laboratorios VIIV Healthcare, S.L.  
 Start date: 01/01/2016  
 End date: 31/12/2018

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	Commission of the European Communities	1
Noncompetitive	Various	4
<b>TOTAL</b>		<b>8</b>

- Title: Caracterización y estudio de la relevancia clínica de un nuevo mecanismo de resistencia a inhibidores de proteasa localizado en la proteína de envoltura de VIH-1.  
 Principal Investigator: Rafael Delgado Vazquez  
 Project No.: PI14/00708  
 Funding Body: Instituto de Salud Carlos III (ISCIII)  
 Start date: 01/01/2015  
 End date: 30/12/2017
- Title: Marcadores genómicos de virulencia en la infección congénita por citomegalovirus humano (hCMV).  
 Principal Investigator: M<sup>a</sup> Dolores Folgueira López  
 Project No.: PI13/02147  
 Funding Body: Instituto de Salud Carlos III (ISCIII)

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	16	64.945
<b>Total</b>	<b>16</b>	<b>64.945</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Gomez S, Prieto C, Folgueira L. A prospective study to assess the diagnostic performance of the Sofia (R) Immunoassay for Influenza and RSV detection. *Journal of Clinical Virology*. 2016;77:1-4. IF: 2.647. Article.
- Suárez-García I, Sobrino-Vegas P, Dalmau D, Rubio R, Iribarren JA, Blanco JR, Gutierrez F, Montero Alonso M, Bernal E, Vinuesa García D, Del Amo J; CoRIS. Clinical outcomes of patients infected with HIV through use of injected drugs compared to patients infected through sexual transmission: late presentation, delayed antiretroviral treatment and higher mortality. *Addiction*. 2016; 111:1235-45. IF: 4.972. Article.
- Torrecilla García E, Yebra Sanz G, Llácer-Delicado T, Rubio García R, González-García J, García García F, López-Aldeguer J, Asensi Álvarez V, Holguín Fernández Á; Cohort of the Spanish AIDS Research Network (CoRIS). Clinical, epidemiological and treatment failure data among HIV-1 non-B-infected patients in the Spanish AIDS Research Network Cohort. *Enfermedades Infecciosas y Microbiología Clínica*. 2016;34:353-60. IF: 1.530. Article.
- Silva JT, López-Medrano F, Alonso-Moralejo R, Fernández-Ruiz M, de Pablo-Gafas A, Pérez-González V, San-Juan R, Pérez-Jacoiste Asín MA, Ruiz-Merlo T, Folgueira MD, Aguado JM. Detection of Epstein-Barr virus DNAemia after lung transplantation and its potential relationship with the development of post-transplant complications. *Transplant Infectious Disease*. 2016;18:431-41. IF: 1.459. Article.
- Rubio R, Matarranz M, Bisbal O, de Lagarde M, Domínguez L. Efectividad y seguridad de darunavir a largo plazo. *Enfermedades Infecciosas y Microbiología Clínica*. 2016; 34(Suppl 1):16-22. IF: 1.530. Article.
- Gómez Cuervo C, Sánchez Morla A, Pérez-Jacoiste Asín MA, Bisbal Pardo O, Pérez Ordoño L, Vila Santos J. Effective adverse event reduction with bolus-basal versus sliding scale insulin therapy in patients with diabetes during conventional hospitalization: Systematic review and meta-analysis. *Endocrinología y Nutrición*. 2016; 63:145-56. IF: 1.314. Article.
- Gómez S, Prieto C, Vera C, R Otero J, Folgueira L. Evaluation of a new rapid diagnostic test for the detection of influenza and RSV. *Enfermedades Infecciosas y Microbiología Clínica*. 2016;34:298-302. IF: 1.530. Article.
- Rivero A, Polo R, Lopez Aldeguer J, Lozano F, Antela A, Aguirrebengoa K, Ramon Arribas J, Asensi V, Berenguer J, Blanco JR, Boix V, LCasado JL, Clotet B, Crespo M, Domingo P, Duenas C, Estrada V, Garcia F, Gatell JM, Gomez-Sirvent JL, Gonzalez-Garcia J, Gutierrez F, Iribarren JA, Knobel H, Llibre JM, Losa JE, Mallolas J, Marino A, Miro JM, Moreno S, Palacios R, Pineda JA, Pulido F, Ribera E, Rubio R, Sanz Moreno J, Sanz Sanz J, Tellez MJ, de la Torre J, Tuset M, Perez Molina JA; AIDS Study Group (GESIDA) of the Spanish Society of Infectious Diseases, Clinical Microbiology, the National AIDS Plan. Executive summary of the GESIDA/National AIDS Plan Consensus Document on Antiretroviral Therapy in Adults Infected by the Human Immunodeficiency Virus (Updated January 2016). *Enfermedades Infecciosas y Microbiología Clínica*. 2016;34:439-51. IF: 1.530. Article.
- Neukam K, Espinosa N, Collado A, Delgado-Fernández M, Jiménez-Aguilar P, Rivero-Juárez A, Hontañón-Antoñana V, Gómez-Berrocal A, Ruiz-Morales J, Merino D, Carrero A, Téllez F, Ríos MJ, Hernández-Quero J, de Lagarde-Sebastián M, Pérez-Camacho I, Vera-Méndez F, Macías J, Pineda JA; hEPAtic Study Group. Hepatic Safety of Rilpivirine/Emtricitabine/Tenofovir Disoproxil Fumarate Fixed-Dose Single-Tablet Regimen in HIV-Infected Patients with Active Hepatitis C Virus Infection: The hEPAtic Study. *PLoS One*. 2016;11(5):e0155842. IF: 3.057. Article.
- Sobrino-Vegas P, Moreno S, Rubio R, Viciiana P, Bernardino JI, Blanco JR, Bernal E, Asensi V, Pulido F, del Amo J, Hernando V; Cohorte de la Red de Investigación en Sida, Spain. Impact of late presentation of HIV infection on short-, mid- and long-term mortality and causes of death in a multicenter national cohort: 2004-2013. *Journal of Infection*. 2016;72:587-96. IF: 4.382. Article.
- May MT, Gill MJ, Wittkop L, Klein Ma, Sabin C, Harrigan PR, Dunn D, Vehreschild JJ, Rubio R, Mocroft A, Cavassini Ma, Reiss P, Monforte Antonella D'Arminio, Zangerle R, Ingle SM, Hill T, Jose S, Sterne JAC, Boulle A, Stephan C, Miro JM, Cavassini M, Chêne G, Costagliola D, Dabis F, D'Arminio Monforte A, del Amo J, Van Sighem A, Vehreschild J, Gill J, Guest J, Haerry DH, Hogg R, Justice A, Mocroft A, Obel N, Crane H, Smith C, Reiss P, Saag M, Sterling T, Teira R, Williams M, Zangerle R, Sterne J, May M, Ingle S, Trickey A, Ainsworth J, Anderson J, Babiker A, Chadwick D, Delpech V, Dunn D, Fisher M, Gazzard B, Gilson R, Hay P, Gompels M, Hill T, Johnson M, Jose S, Kegg S, Leen C, Mackie N, Nelson M, Orkin C, Palfreeman A, Phillips A, Pillay D, Post F, Sabin C, Sachikonye M, Schwenk A, Walsh J, Hill T, Jose S, Phillips A, Sabin C, Thornton A, Huntington S, Dunn D, Glabay A, Orkin C, Garrett N, Lynch J, Hand J, de Souza C, Fisher M, Perry N, Tilbury S, Youssef E, Churchill D, Gazzard B, Nelson M, Waxman M, Asboe D, Mandalia S, Delpech V, Anderson J, Munshi S, Awosika D, Post F, Korat H, Taylor C, Gleisner Z, Ibrahim F, Campbell L, Babiker A, Dunn D, Glabay A, Chadwick D, Baillie K, Cope E, Gibney M, Gibson J, Gilson R, Brima N, Williams I, Ainsworth J, Schwenk A, Miller S, Wood C, Johnson M, Youle M, Lampe F, Smith C, Chaloner C, Hill T, Huntington S, Jose S, Phillips A, Sabin C, Thornton A, Walsh J, Mackie N, Winston A, Weber J, Ramzan F, Carder M, Leen C, Wilson A, Morris S, Gompels M, Allan S, Palfreeman A, Moore A, Fox L, Bojanowski J, Lewszuk A, Kegg S, Main P, Mitchell, Hunter, Sachikonye M, Hay P, Dhillon M, Martin F, Douglas S, Russell-Sharp S; Antiretroviral Therapy Cohort Collaboration (ART-CC); Canadian Observational Cohort Collaboration (CANOC); UK Collaborative HIV Cohort Study (UK CHIC); Collaboration of Observational HIV Epidemiological Research in Europe (COHERE). Mortality of treated HIV-1 positive individuals according to viral subtype in Europe and Canada: collaborative cohort analysis. *AIDS*. 2016; 30:503-13. IF: 4.407. Article.
- Alejos B, Hernando V, Iribarren J, Gonzalez-García J, Hernando A, Santos J, Asensi V, Gomez-Berrocal A, Del Amo J, Jarrin I; CoRIS (Cohort of the Spanish Network on HIV/AIDS Research). Overall and cause-specific excess mortality in HIV-positive persons compared with the general population: Role of HCV coinfection. *Medicine*. 2016;95(36):e4727. IF: 2.133. Article.
- Espinosa M, Pulido F, Rubio R, Lumbreras C, del Palacio M. Peripheral facial palsy leading to the diagnosis of acute HIV infection. *HIV & AIDS Review*. 2016;15:88-90. IF: N/A. Article.
- Luczkowiak J, Arribas JR, Gómez S, Jiménez-Yuste V, de la Calle F, Viejo A, Delgado R. Specific neutralizing response in plasma from convalescent patients of Ebola Virus Disease against the West Africa Makona variant of Ebola virus. *Virus Research*. 2016;213:224-9. IF: 2.526. Article.
- Muñoz A, Sigwalt D, Illescas BM, Luczkowiak J, Rodríguez-Pérez L, Nierengarten I, Holler M, Remy JS, Buffet K, Vincent SP, Rojo J, Delgado R, Nierengarten JF, Martín N. Synthesis of giant globular multivalent glycofullerenes as potent inhibitors in a model of Ebola virus infection. *Nature Chemistry*. 2016;8:50-7. IF: 27.893. Article.
- Dinges W, Girard PM, Podzamczer D, Brockmeyer NH, García F, Harrer T, Lelievre JD, Frank I, Colin De Verdière N, Yeni GP, Ortega Gonzalez E, Rubio R, Clotet Sala B, DeJesus E, Pérez-Elias MJ, Launay O, Pialoux G, Slim J, Weiss L, Bouchaud O, Felizarta F, Meurer A, Raffi F, Esser S, Katlama C, Koletar SL, Mounzer K, Swindells S, Baxter JD, Schneider S, Chas J, Molina JM, Koutsoukos M, Collard A, Bourguignon P, Roman F. The F4/AS01(B) HIV-1 Vaccine Candidate Is Safe and Immunogenic, But Does Not Show Viral Efficacy in Antiretroviral Therapy-Naive, HIV-1-Infected Adults A Randomized Controlled Trial. *Medicine*. 2016;95(6):e2673. IF: 2.133. Article.
- Bayón-Pérez C, Hernando A, Álvarez-Comino MJ, Cebolla S, Serrano L, Gutiérrez F, Montesinos F, Lagarde M, Bisbal O, Matarranz M, Rubio R, Pulido F. Toward a comprehensive care of HIV patients: finding a strategy to detect depression in a Spanish HIV cohort. *AIDS Care*. 2016;28:834-41. IF: 1.902. Article.
- Arribas JR, Luczkowiak J, Delgado R. Convalescent Plasma for Ebola Virus Disease. *New England Journal of Medicine*. 2016;374:2498-9. IF: 59.558. Letter.
- Marchan-Lopez A, Dominguez-Dominguez L, Kessler-Saiz P, Ejarrin-Estupian ME. Liver failure in human immunodeficiency virus - Hepatitis C virus coinfection treated with sofosbuvir, ledipasvir and antiretroviral therapy. *Journal of Hepatology*. 2016;64:752-3. IF: 10.590. Letter.

# MOLECULAR EPIDEMIOLOGY OF HOSPITAL AND EMERGING INFECTIONS



## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
<b>TOTAL</b>		<b>3</b>

- Title: Estudio prospectivo, multicéntrico, de prevalencia de parasitemia submicroscópica por Plasmodium en pacientes inmigrantes residentes en Madrid.  
Principal Investigator: Ana Pérez de Ayala Balzola  
Project No.: PI14/01671  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Impacto del fenotipo de *Staphylococcus aureus* en las características clínicas y la evolución de la endocarditis infecciosa.  
Principal Investigator: Fernando Chaves Sánchez  
Project No.: PI12/01205  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 31/03/2017

- Title: Expresión génica global de cepas de *Staphylococcus aureus* sensible a meticilina, causantes de BRC o EI, y su relación con la actividad de antimicrobianos sobre modelos experimentales.

Principal Investigator: Fernando Chaves Sánchez  
Project No.: PI15/02013  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

## PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	7	26.272
Editorials	1	1.267
<b>Total</b>	<b>8</b>	<b>27.539</b>

- Munoz-Gallego I, Infesta L, Viedma E, Perez-Montarello D, Chaves F. Chlorhexidine and mupirocin susceptibilities in methicillin-resistant *Staphylococcus aureus* isolates from bacteraemia and nasal colonisation. *Journal of Global Antimicrobial Resistance*. 2016;4:65-9. IF: 1.087. Article.
- Gijón M, Bellusci M, Petraitiene B, Noguera-Julian A, Zilinskaite V, Sanchez Moreno P, Saavedra-Lozano J, Glikman D, Daskalaki M, Kaiser-Labusch P, Falup-Pecurariu O, Montagnani C, Prieto L, Gené A, Trampuliyte G, Kulecnikova I, Lepe JA, Cercenado E, Kudinsky R, Makri A, Huppertz HI, Bleotu L, Cocchi P, García-Hierro P, Vitkauskienė A, Fortuny C, Zukovskaja V, Neth O, Santos M, Rokney A, Petra M, Lixandru R, Galli L, Guillén S, Chaves F, Rojo Conejo P. Factors associated with severity in invasive community-acquired *Staphylococcus aureus* infections in children: a prospective European multicentre study. *Clinical Microbiology and Infection*. 2016;22(7):643-e1-6. IF: 4.575. Article.
- San-Juan R, Viedma E, Chaves F, Lalucea A, Fortún J, Loza E, Pujol M, Ardanuy C, Morales I, de Cueto M, Resino-Foz E, Morales-Cartagena A, Rico A, Romero MP, Orellana MÁ, López-Medrano F, Fernández-Ruiz M, Aguado JM. High
- Origüen J, Fernández-Ruiz M, López-Medrano F, Ruiz-Merlo T, González E, Morales JM, Fiorante S, San-Juan R, Villa J, Orellana MÁ, Andrés A, Aguado JM. Progressive increase of resistance in Enterobacteriaceae urinary isolates from kidney transplant recipients over the past decade: narrowing of the therapeutic options. *Transplant Infectious Disease*. 2016;18:575-84. IF: 1.459. Article.
- Origuen J, Lopez-Medrano F, Fernandez-Ruiz M, Polanco N, Gutierrez E, Gonzalez E, Merida E, Ruiz-Merlo T, Morales-Cartagena A, Perez-Jacoiste Asin A, Garcia-Reyne A, San Juan R, Orellana MA, Andres A, Aguado JM. Should Asymptomatic Bacteriuria Be Systematically Treated in Kidney Transplant Recipients? Results From a Randomized Controlled Trial. *American Journal of Transplantation*. 2016;16:2943-53. IF: 5.669. Article.
- López-Medrano F, Lora-Tamayo J, Fernández-Ruiz M, Losada I, Hernández P, Cepeda M, San Juan R,

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Chaves F, Aguado JM. Significance of the isolation of *Staphylococcus aureus* from a central venous catheter tip in the absence of concomitant bacteremia: a clinical approach. *European Journal of Clinical Microbiology & Infectious Diseases*. 2016;35:1865-9. IF: 2.857. Article.
- Pérez-Lago L, Herranz M, Comas I, Ruiz-Serrano MJ, López Roa P, Bouza E, García-de-Viedma D. Ultrafast Assessment of the Presence of a High-Risk Mycobacterium tuberculosis Strain in a Population. *Journal of Clinical Microbiology*. 2016;54:779-81. IF: 3.631. Article.
- Burillo-Martínez S, Fernández-Ruiz M, Pérez-Rivilla A, Zarco-Olivio C. Zika Virus Infection: An Emerging Disease the Dermatologist Must Know About. *Actas Dermosifiliográficas*. 2016;107:687-9. IF: N/A. Letter.
- Fernández-Ruiz M, López-Roa P, Aguado JM. Multifocal skeletal tuberculosis simulating a soft-tissue sarcoma. *Medicina Clinica*. 2016;146:96. IF: 1.267. Editorial Material.

## TRANSLATIONAL RESEARCH IN LEISHMANIASIS



### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: New medicines for trypanosomatidic infections (NMTryp).  
Principal Investigator: José M<sup>a</sup> Alunda Rodríguez  
Project No.: FP7-Health-2013-Innovation-1, Nr. 603240  
Funding Body: European Commission
- Title: Inmunización frente a la hemoncrosis ovina con el antígeno recombinante rHc23.  
Principal Investigator: José M<sup>a</sup> Alunda Rodríguez  
Project No.: CICYT AGL2014-54049-R

### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	3	12.826
<b>Total</b>	<b>3</b>	<b>12.826</b>

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Corral MJ, Benito-Peña E, Jiménez-Antón MD, Cuevas L, Moreno-Bondi MC, Alunda JM. Allicin Induces Calcium and Mitochondrial Dysregulation Causing Necrotic Death in Leishmania. *PLoS Negl Trop Dis.* 2016;10(3):e0004525. IF: 3.948. Article.
- Cardoso-Martinez F, de la Rosa JM, Diaz-Marrero AR, Darias J, D'Croz L, Jimenez-Antón MD, Corral MJ, García R, Alunda JM, Cueto M. Oxysterols from an octocoral of the genus Gorgonia from the eastern Pacific of Panama. *RSC Advances.* 2016;6:38579-91. IF: 3.289. Article.
- Borsari C, Luciani R, Pozzi C, Poehner I, Henrich S, Trande M, Cordeiro-da-Silva A, Santarem N, Baptista C, Tait A, Di Pisa F, Dello Iacono L, Landi G, Gul S, Wolf M, Kuzikov M, Ellinger B, Reinshagen J, Witt G, Gribbon P, Kohler M, Keminer O, Behrens B, Costantino L, Tejera Nevado P, Bifeld E, Eick J, Clos J, Torrado J, Jiménez-Antón MD, Corral MJ, Alunda JM, Pellati F, Wade RC, Ferrari S, Mangani S, Costi MP. Profiling of Flavonol Derivatives for the Development of Antitrypanosomatidic Drugs. *Journal of Medicinal Chemistry.* 2016;59:7598-616. IF: 5.589. Article.

## TRANSLATIONAL RESEARCH IN MALARIA



### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Eugenio Rodríguez Pascual	1
Competitive	Fundación Ramón Areces	1
Noncompetitive	Various	1
<b>TOTAL</b>		<b>3</b>

- Title: Estudios preclínicos para evaluar las células mesenquimales de médula ósea como nuevo agente terapéutico junto a nuevos fármacos antimieloma.  
Principal Investigator: José Manuel Bautista Santa Cruz  
Project No.: 2013/0013  
Funding Body: Fundación Eugenio Rodríguez Pascual  
Start date: 07/04/2015  
End date: 06/04/2018
- Title: Producción de hormonas recombinantes para su aplicación en la reproducción asistida.  
Principal Investigator: José Manuel Bautista Santa Cruz  
Funding Body: Yeguada Centurion, S.L.  
Start date: 15/09/2014  
End date: 30/09/2017
- Title: Rastreo del daño tisular y de la respuesta adaptativa en las hemocromatosis hereditarias raras para la identificación de dianas terapéuticas específicas.

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	1	1.956
<b>Total</b>	<b>1</b>	<b>1.956</b>

- Arsuaga M, Gonzalez LM, Lobo C, de la Calle F, Bautista JM, Azcarate IG, Puente S, Montero E. First Report of Babesia microti-Caused Babesiosis in Spain. Vector-Borne and Zoonotic Diseases. 2016;16:677-9. IF: 1.956. Article.

**INFECTIOUS PATHOLOGIES****ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	6
Competitive	Fundación Mutua Madrileña	3
Noncompetitive	Various	2
<b>TOTAL</b>		<b>11</b>

- Title: Validación de un nuevo modelo de puntuación pronóstica basado en parámetros inmunológicos y virológicos como marcadores subrogados del estado neto de inmunosupresión en receptores de un trasplante de órgano sólido (SIMPLICITY-EBV).  
Principal Investigator: Rafael San Juan Garrido  
Project No.: PI14/00174  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Innovative strategies to seek novel biomarkers and predictive models in solid organ transplantation: establishing personalized transplant medicine.  
Principal Investigator: José Mª Aguado García  
Project No.: PIE13/00045  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016, extended to 30/06/2018
- Title: Ensayo clínico de comparación de una estrategia inmunoguiada frente a una estrategia guiada por viremia en la profilaxis de infección por CMV en receptores seropositivos de trasplante renal.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Principal Investigator: José M<sup>a</sup> Aguado García

Project No.: PI12/02269

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2013

End date: 31/12/2015, extended to 30/06/2017

- Title: Importancia pronóstica de la resistencia a la Vancomicina en la evolución de la bacteriemia.

Principal Investigator: Rafael San Juan Garrido

Project No.: PI11/01299

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2012

End date: 30/12/2014, extended to 30/06/2016

- Title: Impacto de la situación inmunológica del receptor de trasplante de órganos sólidos sobre la incidencia de complicaciones infecciosas post-trasplante.

Principal Investigator: Francisco López Medrano

Project No.: PI11/01538

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2012

End date: 30/12/2014, extended to 28/02/2016

- Title: Utilidad de la monitorización de la viremia por aneliovirus como marcador subrogado del estado neto de inmunosupresión en receptores de trasplante renal.

Principal Investigator: Mario Fernández Ruiz

Project No.: PI15/01953

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 30/12/2018

- Title: Monitorización de la inmunidad celular específica frente a citomegalovirus en receptores de trasplante renal sometidos a tratamiento de inducción con globulina policlonal anti-timocítica.

Principal Investigator: Mario Fernández Ruiz

Project No.: FIMM 2014/0092

Funding Body: Fundación Mutua Madrileña

Start date: 27/10/2014

End date: 26/10/2017

- Title: Efecto del tratamiento antiviral frente a Citomegalovirus (CMV) en el desarrollo de enfermedad vascular del injerto en receptores de un trasplante cardíaco a través de la aplicación de los nuevos criterios coronariográficos de la ISHLT (International Society of Heart Transplantation).

Principal Investigator: Ana García Reyne

Project No.: FIMM 2013/0078

Funding Body: Fundación Mutua Madrileña

Start date: 19/09/2013

End date: 18/09/2015, extended to 30/03/2017

- Title: Comparación de la eficacia y seguridad de una estrategia inmunoguiada frente a una estrategia guiada por viremia en la profilaxis de la infección por citomegalovirus en receptores seropositivos de trasplante de órgano sólido.

Principal Investigator: Rafael San Juan Garrido

Project No.: FIMM 2012/0084

Funding Body: Fundación Mutua Madrileña

Start date: 14/07/2012

End date: 13/09/2015, extended to 31/12/2017

- Title: Diarrea asociada a Clostridium difficile (DACD) en pacientes con trasplante de órgano sólido (TOS).

Principal Investigator: José M<sup>a</sup> Aguado García

Funding Body: Astellas Pharma, S.A.

Start date: 04/01/2013

End date: 03/01/2016

- Title: Infecciones por virus influenza en receptores de trasplante: un registro multicéntrico.

Principal Investigator: Francisco López Medrano

Funding Body: Fundación Pública Andaluza para la Gestión de la Investigación en Salud de Sevilla

Start date: 11/07/2013

End date: 10/12/2016

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	28	110.476
Reviews	2	6.862
Editorials	5	22.184
<b>Total</b>	<b>35</b>	<b>139.522</b>

- Gutiérrez-Gutiérrez B, Pérez-Galera S, Salamanca E, de Cueto M, Calbo E, Almirante B, Viale P, Oliver A, Pintado V, Gasch O, Martínez-Martínez L, Pitout J, Akova M, Peña C, Molina J, Hernández A, Venditti M, Prim N, Origüen J, Bou G, Tacconelli E, Tumbarello M, Hamprecht A, Giamarellou H, Almela M, Pérez F, Schwaber MJ, Bermejo J, Lowman W, Hsueh PR, Mora-Rillo M, Natera C, Souli M, Bonomo RA, Carmeli Y, Paterson DL, Pascual A, Rodríguez-Baño J; investigators from the REIPI/ESGBIS/INCREMENT Group. A Multinational, Preregistered Cohort Study of beta-Lactam/beta-Lactamase Inhibitor Combinations for Treatment of Bloodstream Infections Due to Extended-Spectrum-beta-Lactamase-Producing Enterobacteriaceae. *Antimicrobial Agents and Chemotherapy*. 2016;60:4159-69. IF: 4.415. Article.
- Calvo Pulido J, Manrique Municio M, Loinaz Segurola C, Justo Alonso I, Caso Maestro O, Garcia-Sesma A, Cambra Molero F, San-Juan Garrido R, Abradelo de Usera M, Marcacuzco Quinto A, Moreno Gonzalez E, Jimenez Romero C. Aortic Graft Mycotic Pseudoaneurysm as a Severe Complication After Multivisceral Transplantation: A Case Report. *Transplantation Proceedings*. 2016;48:539-42. IF: 0.867. Article.
- Cuervo G, Garcia-Vidal C, Nucci M, Puchades F, Fernández-Ruiz M, Obed M, Manzur A, Gudiol C, Pemán J, Aguado JM, Ayats J, Carratalà J. Breakthrough candidaemia in the era of broad-spectrum antifungal therapies. *Clinical Microbiology and Infection*. 2016;22:181-8. IF: 4.575. Article.
- López-Medrano F, Fernández-Ruiz M, Silva JT, Carver PL, van Delden C, Merino E, Pérez-Saez MJ, Montero M, Coussette J, de Abreu Mazzolin M, Cervera C, Santos L, Sabé N, Scemla A, Cordero E, Cruzado-Vega L, Martín-Moreno PL, Len Ó, Rudas E, Ponce de León A, Arriola M, Lauzurica R, David M, González-Rico C, Henríquez-Palop F, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Moreno A, Carratalà J, Blanes

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- M, Hernández D, Del Fariñas MC, Andrés A, Aguado JM. Clinical Presentation and Determinants of Mortality of Invasive Pulmonary Aspergillosis in Kidney Transplant Recipients: A Multinational Cohort Study. *American Journal of Transplantation*. 2016;16:3220-34. IF: 5.669. Article.
- Lupiañez CB, Villaescusa MT, Carvalho A, Springer J, Lackner M, Sánchez-Maldonado JM, Canet LM, Cunha C, Segura-Catena J, Alcazar-Fuoli L, Solano C, Fianchi L, Pagano L, Potenza L, Aguado JM, Luppi M, Cuenca-Estrella M, Lass-Flörl C, Einsele H, Vázquez L, PCRAGA Study Group, Ríos-Tamayo R, Loeffler J, Jurado M, Sainz J. Common Genetic Polymorphisms within NF kappa B-Related Genes and the Risk of Developing Invasive Aspergillosis. *Frontiers in Microbiology*. 2016;7:1243. IF: 4.165. Article.
  - Silva JT, López-Medrano F, Alonso-Moralejo R, Fernández-Ruiz M, de Pablo-Gafas A, Pérez-González V, San-Juan R, Pérez-Jacoiste Asín MA, Ruiz-Merlo T, Folgueira MD, Aguado JM. Detection of Epstein-Barr virus DNAemia after lung transplantation and its potential relationship with the development of post-transplant complications. *Transplant Infectious Disease*. 2016;18:431-41. IF: 1.459. Article.
  - Gutiérrez-Gutiérrez B, Bonomo RA, Carmeli Y, Paterson DL, Almirante B, Martínez-Martínez L, Oliver A, Calbo E, Peña C, Akova M, Pitout J, Origüen J, Pintado V, García-Vázquez E, Gasch O, Hamprecht A, Prim N, Tumbarello M, Bou G, Viale P, Tacconelli E, Almela M, Pérez F, Giambarelli H, Cisneros JM, Schwaber MJ, Venditti M, Lowman W, Bermejo J, Hsueh PR, Mora-Rillo M, Gracia-Ahlfinger I, Pascual A, Rodríguez-Baño J; REIPI/ESGBIS/INCREMENT Group. Ertapenem for the treatment of bloodstream infections due to ESBL-producing Enterobacteriaceae: a multinational pre-registered cohort study. *Journal of Antimicrobial Chemotherapy*. 2016;71:1672-80. IF: 4.919. Article.
  - Fortún J, Martín-Dávila P, Gómez García de la Pedrosa E, Silva JT, García-Rodríguez J, Benito D, Venanzi E, Castaño F, Fernández-Ruiz M, Lazaro F, García-Luján R, Quiles I, Cabanillas JJ, Moreno S, Aguado JM. Galactomannan in bronchoalveolar lavage fluid for diagnosis of invasive aspergillosis in non-hematological patients. *Journal of Infection*. 2016;72:738-44. IF: 4.382. Article.
  - San-Juan R, Viedma E, Chaves F, Laluzza A, Fortún J, Loza E, Pujol M, Ardanuy C, Morales I, de Cueto M, Resino-Foz E, Morales-Cartagena A, Rico A, Romero MP, Orellana MÁ, López-Medrano F, Fernández-Ruiz M, Aguado JM. High MICs for Vancomycin and Daptomycin and Complicated Catheter-Related Bloodstream Infections with Methicillin-Sensitive *Staphylococcus aureus*. *Emerging Infectious Diseases*. 2016;22:1057-66. IF: 6.994. Article.
  - Silva JT, San-Juan R, Fernández-Caamaño B, Prieto-Bozano G, Fernández-Ruiz M, Lumbreras C, Calvo-Pulido J, Jiménez-Romero C, Resino-Foz E, López-Medrano F, Lopez-Santamaría M, Aguado JM. Infectious Complications Following Small Bowel Transplantation. *American Journal of Transplantation*. 2016;16:951-9. IF: 5.669. Article.
  - Torre-Cisneros J, Aguado JM, Caston JJ, Almenar L, Alonso A, Cantísn S, Carratalá J, Cervera C, Cordero E, Fariñas MC, Fernández-Ruiz M, Fortún J, Frauca E, Gavaldá J, Hernández D, Herrero I, Len O, Lopez-Medrano F, Manito N, Marcos MA, Martín-Dávila P, Monforte V, Montejo M, Moreno A, Muñoz P, Navarro D, Pérez-Romero P, Rodriguez-Bernot A, Rumbao J, San Juan R, Vaquero JM, Vidal E; Spanish Society of Transplantation (SET), Group for Study of Infection in Transplantation of the Spanish Society of Infect, Spanish Network for Research in Infectious Diseases (REIPI). Management of cytomegalovirus infection in solid organ transplant recipients: SET/GESITRA-SEIMC/REIPI recommendations. *Transplantation Reviews*. 2016;30:119-43. IF: 3.915. Article.
  - Virizuela JA, Carratalà J, Aguado JM, Vicente D, Salavert M, Ruiz M, Ruiz I, Marco F, Lizasoain M, Jiménez-Fonseca P, Gudiol C, Cassinello J, Carmona-Bayonas A, Aguilar M, Cruz JJ. Management of infection and febrile neutropenia in patients with solid cancer. *Clinical & Translational Oncology*. 2016;18:557-70. IF: 2.075. Article.
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  - Origüen J, Fernández-Ruiz M, López-Medrano F, Ruiz-Merlo T, González E, Morales JM, Fiorante S, San-Juan R, Villa J, Orellana MÁ, Andrés A, Aguado JM. Progressive increase of resistance in Enterobacteriaceae urinary isolates from kidney transplant recipients over the past decade: narrowing of the therapeutic options. *Transplant Infectious Disease*. 2016;18:575-84. IF: 1.459. Article.
  - Puig-Asensio M, Fernández-Ruiz M, Aguado JM, Merino P, Lora-Pablos D, Guinea J, Martín-Dávila P, Cuenca-Estrella M, Almirante B. Propensity Score Analysis of the Role of Initial Antifungal Therapy in the Outcome of *Candida glabrata* Bloodstream Infections. *Antimicrobial Agents and Chemotherapy*. 2016;60:3291-300. IF: 4.415. Article.
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  - López-Medrano F, Lora-Tamayo J, Fernández-Ruiz M, Losada I, Hernández P, Cepeda M, San Juan R, Chaves F, Aguado JM. Significance of the isolation of *Staphylococcus aureus* from a central venous catheter tip in the absence of concomitant bacteremia: a clinical approach. *European Journal of Clinical Microbiology & Infectious Diseases*. 2016;35:1865-9. IF: 2.857. Article.
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  - Aguado JM, Silva JT, Samanta P, Singh N. Tuberculosis and Transplantation. *Microbiology Spectrum*. 2016;4(6). IF: N/A. Article.
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  - Muñoz P, Aguado JM. Invasive yeast diseases in solid organ transplant recipients. *Revista Iberoamericana de Micología*. 2016;33:152-9. IF: 1.444. Review.
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  - Fernández-Ruiz M, López-Medrano F, San Juan R, Allende LM, Paz-Artal E, Aguado JM. Low Natural Cell Counts and Risk of Invasive Fungal Disease After Solid Organ Transplantation. *Journal of Infectious Diseases*. 2016; 213:873-4. IF: 6.344. Letter.
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## PATENTS

- **Title:** Aplicador de catéteres y catéter que incorpora aplicador.  
**Number:** PCT/ES2016/070403.  
**Type:** Spanish.  
**Inventors:** Francisco López Medrano.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).  
**Date of application:** 27/05/2016
- **Title:** Aplicador de catéteres y catéter que incorpora aplicador.  
**Number:** P201530745.  
**Type:** Spanish.  
**Inventors:** Francisco López Medrano.  
**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).  
**Date of application:** 27/05/2015

## NEUROSCIENCE AND MENTAL HEALTH

COORDINATOR: JUAN CARLOS LEZA CERRO

Neurocognition

Neurodegenerative Diseases

Affective Disorders and Psychosis

Neurotraumatology and  
Subarachnoid Haemorrhage

Addictions and Comorbidity

Neurovascular

# NEUROCOGNITION

## GROUP DIRECTOR

Rodríguez Jiménez, Roberto

## RESEARCH

### GROUP MEMBERS

Arias Horcajadas, Francisco	Mata Garrido, Víctor
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Laiz Gutiérrez, Paloma	

## ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	2
<b>TOTAL</b>		<b>3</b>

- Title: Determinantes clínicos y neurobiológicos de segundos episodios de esquizofrenia. Estudio longitudinal de primeros episodios psicóticos.  
Principal Investigator: Roberto Rodríguez Jiménez  
Project No.: PI11/02476  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2012  
End date: 31/12/2014, extended to 30/06/2016

- Title: Factores que influyen en la comunidad de pacientes con esquizofrenia en estados iniciales: estudio longitudinal de neurocognición, cognición social y síntomas clínicos.  
Principal Investigator: Roberto Rodríguez Jiménez  
Funding Body: Otsuka Pharmaceutical, S.A.  
Start date: 31/07/2016  
End date: 30/07/2019

- Title: Estudio de calidad de vida, cognición y funcionalidad en pacientes con trastornos psicóticos.  
Principal Investigator: Roberto Rodríguez Jiménez  
Funding Body: Otsuka Pharmaceutical, S.A.  
Start date: 17/12/2014  
End date: 16/12/2016

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	17	66.620
<b>Total</b>	<b>17</b>	<b>66.620</b>

- Bioque M, Llerena A, Cabrera B, Mezquida G, Lobo A, González-Pinto A, Díaz-Caneja CM, Corripio I, Aguilar EJ, Bulbena A, Castro-Fornieles J, Vieta E, Lafuente A, Mas S, Parellada M, Saiz-Ruiz J, Cuesta MJ, Bernardo M; PEPs group. Association of the brain-derived neurotrophic factor Val66Met polymorphism with negative symptoms severity, but not cognitive function, in first-episode schizophrenia spectrum disorders. *European Psychiatry*. 2016;38:61-9. IF: 3.912. Article.
- Serrano-Pedraza I, Vancleef K, Read JC. Avoiding monocular artifacts in clinical stereotests presented on column-interleaved digital stereoscopic displays. *Journal of Vision*. 2016;16:13. IF: 2.341. Article.
- Martinez-Cengotitabengoa M, MacDowell KS, Alberich S, Diaz FJ, Garcia-Bueno B, Rodriguez-Jimenez R, Bioque M, Berrocoso E, Parellada M, Lobo A, Saiz PA, Matute C, Bernardo M, Gonzalez-Pinto A, Leza JC; FLAMM-PEPs. BDNF and NGF Signalling in Early Phases of Psychosis: Relationship With Inflammation and Response to Antipsychotics After 1 Year. *Schizophrenia Bulletin*. 2016; 42:142-51. IF: 7.757. Article.
- Alvarez-Alonso MJ, Jurado-Barba R, Martinez-Martin N, Espin-Jaime JC, Bolaños-Porrero C, Ordoñez-Franco A, Rodriguez-Lopez JA, Lora-Pablos D, de la Cruz-Bértolo J, Jimenez-Arriero MA, Manzanares J, Rubio G. Association between maltreatment and polydrug use among adolescents. *Child Abuse & Neglect*. 2016;51:379-89. IF: 2.397. Article.
- Barral D, Barral F, Cruz N, Molina JD, Sánchez V, Rosique T. Comparison of psychodrug prescription patterns in

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- patients diagnosed with bipolar disorder and addiction. *Actas Espanolas de Psiquiatria*. 2016;44:222-30. IF: 0.813. Article.
- Suazo V, Lubeiro A, Jurado-Barba R, Moreno-Ortega M, Domínguez M, Morales-Muñoz I, Rodríguez-Jiménez R, Palomo T, Molina V. Elevated midline-parietal gamma band noise power in schizophrenia but not in bipolar patients. *European Archives of Psychiatry and Clinical Neuroscience*. 2016;266:743-53. IF: 4.113. Article.
  - Romero-Ferreiro MV, Aguado L, Rodríguez-Torresano J, Palomo T, Rodríguez-Jiménez R, Pedreira-Massa JL. Facial affect recognition in early and late-stage schizophrenia patients. *Schizophrenia Research*. 2016;172:177-83. IF: 4.453. Article.
  - Báez-León C, Moreno-Jiménez B, Aguirre-Camacho A, Olmos R. Factors influencing intention to help and helping behaviour in witnesses of bullying in nursing settings. *Nursing Inquiry*. 2016;23:358-67. IF: 1.141. Article.
  - Bonnin CM, Torrent C, Arango C, Amann BL, Solé B, González-Pinto A, Crespo JM, Tabarés-Seisdedos R, Reinares M, Ayuso-Mateos JL, García-Portilla MP, Ibañez Á, Salamero M, Vieta E, Martínez-Aran A; CIBERSAM Functional Remediation Group. Functional remediation in bipolar disorder: 1-year follow-up of neurocognitive and functional outcome. *British Journal of Psychiatry*. 2016; 208:87-93. IF: 7.060. Article.
  - González-Pinto A, González-Ortega I, Alberich S, Ruiz de Azúa S, Bernardo M, Bioque M, Cabrera B, Corripio I, Arango C, Lobo A, Sánchez-Torres AM, Cuesta MJ; PEPs Group. Opposite Cannabis-Cognition Associations in Psychotic Patients Depending on Family History. *PLoS One*. 2016;11(8):e0160949. IF: 3.057. Article.

- Mas S, Gassó P, Lafuente A, Bioque M, Lobo A, González-Pinto A, Olmeda MS, Corripio I, Llerena A, Cabrera B, Saiz-Ruiz J, Bernardo M; PEPs GROUP, Rodriguez Jimenez R. Pharmacogenetic study of antipsychotic induced acute extrapyramidal symptoms in a first episode psychosis cohort: role of dopamine, serotonin and glutamate candidate genes. *Pharmacogenomics Journal*. 2016; 16:439-45. IF: 3.784. Article.
- Morales-Muñoz I, Jurado-Barba R, Fernández-Guinea S, Rodríguez-Jiménez R, Jiménez-Arriero MÁ, Criado JR, Rubio G. Sensory Gating Deficits in First-Episode Psychosis Evidence From Neurophysiology, Psychophysiology, and Neuropsychology. *Journal of Nervous and Mental Disease*. 2016;204:877-84. IF: 1.836. Article.
- Origuen J, Lopez-Medrano F, Fernandez-Ruiz M, Polanco N, Gutierrez E, Gonzalez E, Merida E, Ruiz-Merlo T, Morales-Cartagena A, Perez-Jacoiste Asin A, Garcia-Reyne A, San Juan R, Orellana MA, Andres A, Aguado JM. Should Asymptomatic Bacteriuria Be Systematically Treated in Kidney Transplant Recipients? Results From a Randomized Controlled Trial. *American Journal of Transplantation*. 2016;16:2943-53. IF: 5.669. Article.
- Ponce G, Quiñones-Lombraña A, Martín-Palanco NG, Rubio-Solsona E, Jiménez-Arriero MÁ, Palomo T, Hoenicka J. The Addiction-Related Gene Ankk1 is Oppositely Regulated by D1R- and D2R-Like Dopamine Receptors. *Neurotoxicity Research*. 2016;29:345-50. IF: 3.140. Article.
- Hinojosa JA, Rincón-Pérez I, Romero-Ferreiro MV, Martínez-García N, Villalba-García C, Montoro PR, Pozo MA. The Madrid Affective Database for Spanish (MADS): Ratings of Dominance, Familiarity, Subjective Age of Acquisition and Sensory Experience. *PLoS One*. 2016; 11(5):e0155866. IF: 3.057 - Article.

## NEURODEGENERATIVE DISEASES



### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Noncompetitive	Various	9
<b>TOTAL</b>		<b>13</b>

- Title: Inflamación periférica como factor de riesgo en la patología de la enfermedad de alzheimer: nuevas herramientas diagnósticas y dianas terapéuticas.  
Principal Investigator: Eva Mª Carro Díaz  
Project No.: PI15/00780  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Asociación de alteraciones moleculares y funcionales de los plexos coroideos con la severidad, patología y progresión de la Enfermedad de Alzheimer.  
Principal Investigator: Eva Mª Carro Díaz  
Project No.: PI12/00486  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 30/06/2016

- Title: Cohorte biomédica, cerrada y de origen comunitario integrada con participantes del centro de España. Estudio observacional del temblor esencial y la Enfermedad de Parkinson (NEDICES-2).  
Principal Investigator: Julián Benito León  
Project No.: PI12/01602  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 31/03/2017
- Title: NEDICES 2. Estudio Basal de una Cohorte.  
Principal Investigator: Jesús Hernández Gallego  
Project No.: PI11/01508  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2012  
End date: 31/12/2014, extended to 30/06/2016
- Title: Estudio de un grupo de pacientes con enfermedad de Parkinson avanzada, subsidiarios de tratamiento con L-DOPA en infusión continua duodenal.  
Principal Investigator: José Antonio Molina Arjona  
Funding Body: Abbvie Spain, S.L.U.  
Start date: 29/12/2014  
End date: 28/12/2017
- Title: Typing pattern analysis in Parkinson's diseases.  
Principal Investigator: Álvaro Sánchez Ferro  
Funding Body: Massachusetts Institute of Technology  
Start date: 01/11/2014  
End date: 30/09/2015, extended to 30/06/2016
- Title: Analysis of changes in the pattern type in a sample of patients with Parkinson vs. controls.  
Principal Investigator: Félix Bermejo Pareja  
Funding Body: Massachusetts Institute of Technology  
Start date: 01/03/2014  
End date: 28/02/2016
- Title: Temblor esencial y OCT. Relación entre el grado de discapacidad neurológica y el grado de afectación visual medida por tomografía de coherencia óptica en pacientes con temblor esencial.

Principal Investigator: Julián Benito León  
Funding Body: Biogen Spain, S.L.U.  
Start date: 12/12/2014  
End date: 11/12/2017

- Title: ETORGAI-ANTIAGE "ANTIAGE (productos personalizados para combatir el envejecimiento)".  
Principal Investigator: Eva Mª Carro Díaz  
Funding Body: Biopraxis Research AIE  
Start date: 08/06/2015  
End date: 07/06/2020

- Title: Creación, gestión y mantenimiento de una plataforma digital común para la detección precoz y abordaje de la disfunción neuropsicológica en pacientes de esclerosis múltiple del Hospital Universitario 12 de Octubre.  
Principal Investigator: Julian Benito León  
Funding Body: Novartis Farmaceutica, S.A.  
Start date: 06/08/2015  
End date: 05/08/2018

- Title: Búsqueda de nuevos biomarcadores salivales en la enfermedad de Alzheimer y otras enfermedades neurodegenerativas: posible aplicación diagnóstica.  
Principal Investigator: Eva Mª Carro Díaz  
Funding Body: Geroa Diagnósticos, S.L.  
Start date: 15/09/2015  
End date: 30/03/2016, extended to 31/12/2017

- Title: Environmental epidemiology of essential tremor.  
Principal Investigator: Julián Benito León  
Funding Body: Columbia University  
Start date: 08/06/2009  
End date: 07/06/2014, extended to 31/12/2017

- Title: Evaluación del papel neurotrófico de PRGF en modelos en cultivos celulares y en un modelo animal de amiloidosis.  
Principal Investigator: Eva Mª Carro Díaz  
Funding Body: Biotechnology Institute I Mas D, S.L.  
Start date: 01/02/2011  
End date: 31/10/2016

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	19	59.955
Reviews	7	21.756
Editorials	3	29.368
<b>Total</b>	<b>29</b>	<b>111.079</b>

- Labiano-Fontcuberta A, Martínez-Ginés ML, Aladro Y, Ayuso L, Mitchell AJ, Puertas-Martín V, Cerezo M, Higueras Y, Benito-León J. A comparison study of cognitive deficits in radiologically and clinically isolated syndromes. *Multiple Sclerosis Journal*. 2016;22:250-3. IF: 4.671. Article.
- Martínez-Flores JA, Serrano M, Pérez D, Cámaras A G, Lora D, Morillas L, Ayala R, Paz-Artal E, Morales JM, Serrano A. Circulating Immune Complexes of IgA Bound to Beta 2 Glycoprotein are Strongly Associated with the Occurrence of Acute Thrombotic Events. *Journal of Atherosclerosis and Thrombosis*. 2016;23:1242-53. IF: 2.411. Article.
- Benito-León J, Louis ED, Puertas-Martín V, Romero JP, Matarazzo M, Molina-Arjona JA, Domínguez-González C, Sánchez-Ferro Á. Cognitive and neuropsychiatric features of orthostatic tremor: A case-control comparison. *Journal of the Neurological Sciences*. 2016;361:137-43. IF: 2.126. Article.
- Gómez-Cabeira E, Ivanovic-Barbeito Y, Gutiérrez-Martínez E, Morales E, Abradelo M, Hilario A, Ramos A, Ruiz-Morales J, Villarejo-Galende A. Eculizumab-Related Progressive Multifocal Leukoencephalopathy. *Neurology*. 2016;86:399-400. IF: 8.166. Article.
- Benito-León J, Contador I, Louis ED, Cosentino S, Bermejo-Pareja F. Education and risk of incident dementia during the premotor and motor phases of essential tremor. *Medicine*. 2016;95(37):e4848. IF: 2.133. Article.
- Pérez D, Martínez-Flores JA, Serrano M, Lora D, Paz-Artal E, Morales JM, Serrano A. Evaluation of three fully automated immunoassay systems for detection of IgA anti-beta 2-glycoprotein I antibodies. *International Journal of Laboratory Hematology*. 2016;38:560-8. IF: 2.401. Article.
- Labiano-Fontcuberta A, Mato-Abad V, Alvarez-Linera J, Hernandez-Tamames JA, Martinez-Gines ML, Aladro Y, Ayuso L, Domingo-Santos A, Benito-Leon J. Gray Matter Involvement in Radiologically Isolated Syndrome. *Medicine*. 2016;95(13):e3208. IF: 2.133. Article.
- Agúndez JA, García-Martín E, Martínez C, Benito-León J, Millán-Pascual J, Díaz-Sánchez M, Calleja P, Pisa D, Turpín-Fenoll L, Alonso-Navarro H, Pastor P, Ortega-Cubero S, Ayuso-Peralta L, Torrecillas D, García-Albea E, Plaza-Nieto JF, Jiménez-Jiménez FJ. Heme Oxygenase-1 and 2 Common Genetic Variants and Risk for Multiple Sclerosis. *Scientific Reports*. 2016;6:20830. IF: 5.228. Article.
- Benito-León J, Louis ED, Mato-Abad V, Dydak U, Álvarez-Linera J, Hernández-Tamames JA, Molina-Arjona JA, Malpica N, Matarazzo M, Romero JP, Sánchez-Ferro Á. In vivo neurometabolic profiling in orthostatic tremor. *Medicine*. 2016;95(37):e4848. IF: 2.133. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Llamas-Velasco S, Sierra-Hidalgo F, Llorente-Ayuso L, Herrero-San Martín A, Villarejo Galende A, Bermejo Pareja F. Inter-Rater Agreement in the Clinical Diagnosis of Cognitive Status: Data from the Neurological Disorders in Central Spain 2 Pilot Study. *Neuroepidemiology*. 2016; 47:32-7. IF: 2.784. Article.
- Pastor P, Moreno F, Clarimón J, Ruiz A, Combarros O, Calero M, López de Munain A, Bullido MJ, de Pancorbo MM, Carro E, Antonell A, Coto E, Ortega-Cubero S, Hernandez I, Tárraga L, Boada M, Lleó A, Dols-Icardo O, Kulisevsky J, Vázquez-Higuera JL, Infante J, Rábano A, Fernández-Blázquez MÁ, Valentí M, Indakoetxea B, Barandiarán M, Gorostidi A, Frank-García A, Sastre I, Lorenzo E, Pastor MA, Elcoro Aristizabal X, Lennarz M, Maier W, Rámirez A, Serrano-Ríos M, Lee SE, Sánchez-Juan P; Dementia Genetic Spanish Consortium (DEGESCO). MAPT H1 Haplotype is Associated with Late-Onset Alzheimer's Disease Risk in APOE epsilon 4 Noncarriers: Results from the Dementia Genetics Spanish Consortium. *Journal of Alzheimers Disease*. 2016;49:343-52. IF: 3.920. Article.
- Labiano-Fontcuberta A, Mato-Abad V, Álvarez-Linera J, Hernández-Tamames JA, Martínez-Ginés ML, Aladro Y, Ayuso L, Domingo-Santos Á, Benito-León J. Normal-appearing brain tissue analysis in radiologically isolated syndrome using 3 T MRI. *Medicine*. 2016;95(27):e4101. IF: 2.133. Article.
- Benito-León J, Contador Is, Mitchell AJ, Domingo-Santos A, Bermejo-Pareja. Performance on Specific Cognitive Domains and Cause of Death: A Prospective Population-Based Study in Non-Demented Older Adults (NEDICES). *Journal of Alzheimers Disease*. 2016;51:533-44. IF: 3.920. Article.
- Tavares E, Antequera D, López-González I, Ferrer I, Miñano FJ, Carro E. Potential Role of Aminoprocalcitonin in the Pathogenesis of Alzheimer Disease. *American Journal of Pathology*. 2016;186:2723-35. IF: 4.206. Article.
- Bermejo-Pareja F, Contador I, Trincado R, Lora D, Sánchez-Ferro Á, Mitchell AJ, Boycheva E, Herrero A, Hernández-Gallego J, Llamas S, Villarejo Galende A, Benito-León J. Prognostic Significance of Mild Cognitive Impairment Subtypes for Dementia and Mortality: Data from the NEDICES Cohort. *Journal of Alzheimers Disease*. 2016; 50:719-31. IF: 3.920. Article.
- Sardinero-García C, Santiago-Sáez A, Bravo MD, Pérez-B, Albarrán-Juan ME, Labajo-González E, Benito-León J. Responsibility for the loss of opportunity in malignant cancer care in the Spanish public healthcare system. *Gaceta Sanitaria*. 2016;30:421-5. IF: 1.509. Article.
- Benito-León J, Louis ED, Manzanedo E, Hernández-Tamames JA, Álvarez-Linera J, Molina-Arjona JA, Matarazzo M, Romero JP, Domínguez-González C, Domingo-Santos Á, Sánchez-Ferro Á. Resting state functional MRI reveals abnormal network connectivity in orthostatic tremor. *Medicine*. 2016;95(29):e4310. IF: 2.133. Article.
- Contador I, Almondes K, Fernandez-Calvo B, Boycheva E, Puertas-Martin V, Benito-, Bermejo-Pareja F. Semantic Verbal Fluency: Normative Data in Older Spanish Adults From NEDICES Population-Based Cohort. *Archives of Clinical Neuropsychology*. 2016;31:954-62. IF: 2.014. Article.
- Contador I, Bermejo-Pareja F, Fernández-Calvo B, Boycheva E, Tapias E, Llamas S, Benito-León J. The 37 item Version of the Mini-Mental State Examination: Normative Data in a Population-Based Cohort of Older Spanish Adults (NEDICES). *Archives of Clinical Neuropsychology*. 2016; 31:263-72. IF: 2.014. Article.
- Llamas-Velasco S, Villarejo-Galende A, Contador I, Lora Pablos D, Hernández-Gallego J, Bermejo-Pareja F. Physical activity and long-term mortality risk in older adults: A prospective population based study (NEDICES). *Preventive Medicine Reports*. 2016;4:546-50. IF: N/A. Article.
- Bermejo-Pareja F, Llamas-Velasco S, Villarejo-Galende A. Alzheimer's disease prevention: A way forward. *Revista Clinica Espanola*. 2016;216:495-503. IF: 0.760. Review.
- Matarazzo M, Galán Sánchez-Seco V, Méndez-Guerrero AJ, Gata-Mayo D, Domingo-Santos Á, Ruiz-Morales J, Benito-León J. Drug-Related Eyelid Nystagmus: Two Cases of a Rare Clinical Phenomenon Related to Carbamazepine and Derivatives. *Clinical Neuropharmacology*. 2016;39:49-50. IF: 1.748. Review.
- Benito-León J, Labiano-Fontcuberta A. Linking Essential Tremor to the Cerebellum: Clinical Evidence. *Cerebellum*. 2016;15:253-62. IF: 2.429. Review.
- Ferrer I, García-Esparcia P, Carmona M, Carro E, Aronica E, Kovacs GG, Grison A, Gustincich S. Olfactory Receptors in Non-Chemosensory Organs: The Nervous System in Health and Disease. *Frontiers in Aging Neuroscience*. 2016;8:163. IF: 4.348. Review.
- Olazarán J, Hoyos-Alonso MC, Del Ser T, Garrido Barral A, Conde-Sala JL, Bermejo-Pareja F, López-Pousa S, Pérez-Martínez D, Villarejo-Galende A, Cacho J, Navarro E, Oliveros-Cid A, Peña-Casanova J, Carnero-Pardo C. Practical application of brief cognitive tests. *Neurologia*. 2016;31:183-94. IF: 1.790. Review.
- Labiano-Fontcuberta A, Benito-León J. Radiologically isolated syndrome: An update on a rare entity. *Multiple Sclerosis Journal*. 2016;22:1514-21. IF: 4.671. Review.
- Haubenberger D, Abbruzzese G, Bain PG, Bajaj N, Benito-León J, Bhatia KP, Deuschl G, Forjaz MJ, Hallett M, Louis ED, Lyons KE, Mestre TA, Raethjen J, Stamelou M, Tan EK, Testa CM, Elble RJ. Transducer-based evaluation of tremor. *Movement Disorders*. 2016;31:1327-36. IF: 6.010. Review.
- Benito-León J, Domingo-Santos Á. Orthostatic Tremor: An Update on a Rare Entity. *Tremor and Other Hyperkinetic Movements (N.Y.)*. 2016;6:411-0. IF: N/A. Review.
- Benito-León J, Louis ED. Movement disorders: New hope for medically-refractory essential tremor? *Nature Reviews Neurology*. 2016;12:618-9. IF: 18.418. Editorial Material.
- Morrison PJ, Benito-León J. Neurologic features in intermediate allele carriers of Huntington disease. *Neurology*. 2016;87:556-7. IF: 8.166. Editorial Material.
- Benito-León J. The Future of Statins: Essential Tremor? *Neuroepidemiology*. 2016;47:18-9. IF: 2.784. Editorial Material.
- León Ruiz M, García-Soldevilla MÁ, Benito-León J, Vidal Díaz MB, Tejeiro-Martínez J, García-Albea Ristol E. Babinski's Lost Legacy: A Remarkable Case of a Not-So-New Clinical Construct. *Journal of Clinical Neurology*. 2016;12:368-70. IF: 1.876. Letter.
- León Ruiz M, Izquierdo Esteban L, Parra Santiago A, Benito-León J, Nieto Altuzarra AE, García-Albea Ristol E. Binocular vertical diplopia following chemical labyrinthectomy with gentamicin: A case report and review of literature. *Neurologia*. 2016;31:503-5. IF: 1.790. Letter.
- Benito-León J, Domingo-Santos Á. Comment on the case report entitled "Secondary orthostatic tremor in the setting of cerebellar degeneration". *Journal of Clinical Neuroscience*. 2016;30:169. IF: 1.387. Letter.
- Louis ED, Benito-León J, Faust PL. Essential tremor is a risk factor for Parkinson's disease Parkinsonism & Related Disorders. 2016;24:143-4. IF: 3.794. Letter.
- Louis ED, Benito-León J, Faust PL. Essential tremor seems to be a risk factor for Parkinson's disease. *Parkinsonism & Related Disorders*. 2016;26:82-3. IF: 3.794. Letter.
- León Ruiz M, Benito-León J, García-Soldevilla MA, Arranz Caso JA, García-Albea Ristol E. First described case of coma triggered by retrograde venous air embolism: an exceptional but potentially life-threatening situation. *Neurologia*. 2016;31:350-53. IF: 1.790. Letter.
- Benito-León J, Domingo-Santos Á. Gut microflora and multiple sclerosis. *Journal of the Neurological Sciences*. 2016;368:254. IF: 2.126. Letter.
- Domingo-Santos Á, Sepúlveda M, Matarazzo M, Calleja-Castaño P, Ramos-González A, Saiz A, Benito-León J. Intravenous Immunoglobulin Therapy in a Patient With Anti-Myelin Oligodendrocyte Glycoprotein-Seropositive Neuromyelitis Optica. *Clinical Neuropharmacology*. 2016; 39:332-4. IF: 1.748. Letter.

▪ González Sánchez M, Llorente Ayuso L, Ruiz Morales J, Martínez Salio A. Neuropathic pruritus as the presenting symptom of lupus transverse myelitis. *Journal of the Neurological Sciences*. 2016;368:138-9. IF: 2.126. Letter.

▪ León Ruiz M, Lagares Gómez-Abascal A, Fernández Alén JA, Benito-León J, García-Albea Ristol E. Subarachnoid haemorrhage from a ruptured intracranial mirror-like aneurysm. A case report and literature review. *Neurologia*. 2016;31:283-5. IF: 1.790. Letter.

## PATENTS

▪ **Title:** Agentes moduladores de N-Procalcitonina para la prevención y el tratamiento de enfermedades neurodegenerativas.

**Number:** PCT/ES2015/070004.

**Type:** PCT.

**Inventors:** Eva M<sup>a</sup> Carro Díaz, Eva Tavares Vázquez, Javier Miñano Sánchez.

**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,66%), Servicio Andaluz de Salud (50%), Universidad de Sevilla (16,66%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (16,66%).

**Date of application:** 08/01/2015

▪ **Title:** Infrared analysis of peripheral blood fractions obtained to indicate cognitive development associated with Alzheimer's Disease.

**Inventors:** Pedro Carmona Hernández, Adolfo Toledano Gasca, Miguel Calero Vara, Pablo Martínez Martín, Félix Bermejo Pareja.

**Owners:** Consejo Superior Investigaciones Científicas (50%), Instituto de Salud Carlos III (25%), Fundación CIEN (5%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%).

**US PCT national phase entry application no.:** 14237979.

**Date of application:** 12/05/2014

▪ **Title:** Infrared analysis of peripheral blood fractions obtained to indicate cognitive development associated with Alzheimer's Disease.

**Inventors:** Pedro Carmona Hernández, Adolfo Toledano Gasca, Miguel Calero Vara, Pablo Martínez Martín, Félix Bermejo Pareja.

**Owners:** Consejo Superior Investigaciones Científicas

(50%), Instituto de Salud Carlos III (25%), Fundación CIEN (5%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%).

**EP PCT national phase entry application no.:** 12821746.

**Date of application:** 12/02/2014

▪ **Title:** Agentes moduladores de N-Procalcitonina para la prevención y el tratamiento de enfermedades neurodegenerativas.

**Inventors:** Eva Tavares Vázquez, Javier Miñano Sánchez y Eva M<sup>a</sup> Carro Díaz.

**Owners:** Servicio Andaluz de Salud (50%), Universidad de Sevilla (16,66%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,66%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (16,66%).

**Spanish patent application no.:** P201430015.

**Date of application:** 08/01/2014

▪ **Title:** Modelo animal de déficit cognitivo, procedimiento de obtención y aplicaciones Alzheimer.

**Inventors:** Eva M<sup>a</sup> Carro Díaz, Desireé Antequera Tienda, Consuelo Pascual Pérez.

**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (50%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (50%).

**PCT extension application no.:** PCT/ES2013/070693.

**Date of application:** 07/10/2013

▪ **Title:** Use of Microparticles Containing Genetically Modified Cells in the Treatment of Neurodegenerative Diseases (EN).

**Inventors:** Rosa M<sup>a</sup> Hernández Martín, Gorka Orive Arroyo, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix

Bermejo Pareja, Eva M<sup>a</sup> Carro Díaz, José Luis Pedraz Muñoz.

**Owners:** Universidad del País Vasco, Fundación para la Investigación Biomédica del Hospital 12 de Octubre, Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED).

**International publication no.:** WO/2010/010223.

**Date of international publication:** 28/01/2010.

**International application no.:** PCT/ES2009/070309.

**Date of international presentation:** 23/07/2009

**National application no.:** P200802217 (ES).

**Date of priority:** 24/07/2008 (ES)

▪ **Title:** Method for Treating Neurodegenerative Diseases (EN).

**Inventors:** Gorka Orive Arroyo, Rosa M<sup>a</sup> Hernández Martín, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva M<sup>a</sup> Carro Díaz, José Luis Pedraz Muñoz.

**Owners:** Universidad del País Vasco (33%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (33%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED) (33%).

**International publication no.:** WO/2010/089442.

**Date of international publication:** 12/08/2010

**International application no.:** PCT/ES2010/070059.

**Date of international presentation:** 04/02/2010

▪ **Title:** Análisis infrarrojo de fracciones de sangre periférica obtenida para indicar desarrollo cognitivo asociado a la Enfermedad de Alzheimer.

**Inventors:** Pedro Carmona Hernández, Adolfo Toledano Gasca, Miguel Calero Lara, Pablo Martínez Martín, Félix Bermejo Pareja.

**Owners:** Consejo Superior de Investigaciones Científicas (CSIC) (50%), Instituto de Salud Carlos III (ISCIII) (25%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación CIEN (5%).

**Application no.:** P201131370.

**Date of priority:** 08/08/2011.

**PCT extension application no.:** PCT/ES2012/070613.

**Date of application:** 07/08/2012

**European patent application no.:** EP20120382330.

**Date of application:** 07/08/2012

▪ **Title:** Modelo animal de déficit cognitivo. Procedimiento de obtención y aplicaciones.

**Inventors:** Eva M<sup>a</sup> Carro Díaz, Desireé Antequera Tienda, Consuelo Pascual Pérez.

**Owners:** Fundación para la Investigación Biomédica del Hospital 12 de Octubre (50%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED) (50%).

**Spanish patent application no.:** P201231533.

**Date of application:** 05/10/2012

# AFFECTIVE DISORDERS AND PSYCHOSIS

## RESEARCH GROUP MEMBERS

### GROUP DIRECTOR

Leza Cerro, Juan Carlos  
Agüera Ortiz, Luis Fernando

Angora Cañego, Ricardo  
Cabia Díez, Mercedes  
Caso Fernández, Javier  
Castillo García, Isabel M<sup>a</sup>  
Domínguez Tobar, Mónica  
Espejo-Saavedra Roca, Juan Manuel  
García Bueno, Borja  
Herrera Rodríguez, Sara  
Holgado Madera, Pedro Manuel  
López Álvarez, Jorge  
Mac-Dowell Mata, Karina Soledad

Martín Hernández, David  
Moreno Moreno, Beatriz  
Moreno Ortega, Marta  
Muñoz Madrigal, José Luis  
Navío Acosta, Mercedes  
Ramos García, Javier  
Rodríguez Maus, Sandra  
Sanz Fuentenebro, Francisco Javier  
Sayd Gaban, Aline  
Villalba Borruel, Antonio Miguel

### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Origen y consecuencias de la inflamación en fases tempranas de psicosis. Un estudio traslacional.  
Principal Investigator: Juan Carlos Leza Cerro  
Project No.: SAF 2016/75500-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/12/2016  
End date: 31/12/2019
- Title: Papel de la microbiota en el origen y las consecuencias de la inflamación en depresión. Estudio traslacional.  
Principal Investigator: Juan Carlos Leza Cerro

- Project No.: PI13/01102  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2014  
End date: 31/12/2016
- Title: Déficit noradrenérgico en enfermedad de Alzheimer. Estudio de su efecto sobre la quimoquina CX3CL1 y su receptor CX3CR1.  
Principal Investigator: José Luis Muñoz Madrigal  
Funding Body: Universidad Complutense de Madrid (UCM)  
Start date: 2016  
End date: 2017

- Title: Activación del sistema inmune innato en el síndrome de Wernicke-Korsakoff.  
Principal Investigator: Borja García Bueno  
Project No.: PR26/16-11B-2  
Funding Body: Proyectos de Investigación Santander Universidad Complutense de Madrid 2016  
Start date: 22/12/2016  
End date: 21/12/2018
- Título del proyecto: Inflammatory alterations in mental diseases: the role of Nrf2 and inflamasome pathways.  
Principal Investigator: Javier Caso Fernández  
Funding Body: ISCIII-Proyectos Intramurales Traslacionales CIBERSAM

- Start date: 07/09/2015  
End date: 31/12/2017
- Título del proyecto: SALUD Exploración de las alteraciones de la conectividad cerebral para una nueva tipificación de la Esquizofrenia.  
Principal Investigator: Vicente Molina Rodríguez  
Project No.: PI015/00299  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018

### PUBLICATIONS\*

Type of Document	No. of Documents	Σ FI (JCR 2015)
Articles	13	75.647
Reviews	4	20.081
<b>Total</b>	<b>17</b>	<b>95.728</b>

- Martín-Hernández D, Caso JR, Bris ÁG, Maus SR, Madrigal JL, García-Bueno B, MacDowell KS, Alou L, Gómez-Lus ML, Leza JC. Bacterial translocation affects intracellular neuroinflammatory pathways in a depression-like model in rats. *Neuropharmacology*. 2016;103:122-33. IF: 4.936. Article.
- Martinez-Cengotitabengoa M, MacDowell KS, Alberich S, Diaz FJ, Garcia-Bueno B, Rodriguez-Jimenez R, Bioque M, Berrocoso E, Parellada M, Lobo A, Saiz PA, Matute C, Bernardo M, Gonzalez-Pinto A, Leza JC; FLAMM-PEPs. BDNF and NGF Signalling in Early Phases of Psychosis: Relationship With Inflammation and Response to Antipsychotics After 1 Year. *Schizophrenia Bulletin*. 2016; 42:142-51. IF: 7.757. Article.
- Montoya A, Lebrec J, Keane KM, Fregen I, Ciudad A, Morónigo Á, Agüera-Ortiz L, Romera I, Gilaberte I, Zimmerman M. Broader conceptualization of remission assessed by the remission from depression questionnaire and its association with symptomatic remission: a prospective, multicenter, observational study. *BMC Psychiatry*. 2016;16:352. IF: 2.576. Article.
- Cabrera B, Bioque M, Penadés R, González-Pinto A, Parellada M, Bobes J, Lobo A, García-Bueno B, Leza JC, Bernardo M. Cognition and psychopathology in first-episode psychosis: are they related to inflammation? *Psychological Medicine*. 2016;46:2133-4. IF: 5.491. Article.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- 
- Bioque M, Cabrera B, García-Bueno B, Mac-Dowell KS, Torrent C, Saiz PA, Parellada M, González-Pinto A, Lobo A, Leza JC, Bernardo M; From the FLAMM-PEPs study - Centro de Investigación Biomédica en Red de Salud Mental. Dysregulated peripheral endocannabinoid system signaling is associated with cognitive deficits in first-episode psychosis. *Journal of Psychiatric Research.* 2016;75:14-21. IF: 4.465. Article.
  - Vera I, Sanz-Fuentenebro J, Urretavizcaya M, Verdura E, Soria V, Martínez-Amorós E, Bernardo M. Electroconvulsive Therapy Practice in Spain A National Survey. *Journal of ECT.* 2016;32:55-61. IF: 1.833. Article.
  - Suazo V, Lubeiro A, Jurado-Barba R, Moreno-Ortega M, Domínguez M, Morales-Muñoz I, Rodríguez-Jiménez R, Palomo T, Molina V. Elevated midline-parietal gamma band noise power in schizophrenia but not in bipolar patients. *European Archives of Psychiatry and Clinical Neuroscience.* 2016;266:743-53. IF: 4.113. Article.
  - García-Bueno B, Gassó P, MacDowell KS, Callado LF, Mas S, Bernardo M, Lafuente A, Meana JJ, Leza JC. Evidence of activation of the Toll-like receptor-4 proinflammatory pathway in patients with schizophrenia. *Journal of Psychiatry & Neuroscience.* 2016;41:46-55. IF: 5.570. Article.
  - Lubeiro A, Rueda C, Hernández JA, Sanz J, Sarramea F, Molina V. Identification of two clusters within schizophrenia with different structural, functional and clinical characteristics. *Progress in Neuropsychopharmacology & Biological Psychiatry.* 2016;64:79-86. IF: 4.361. Article.
  - Martín-Hernández D, Bris ÁG, MacDowell KS, García-Bueno B, Madrigal JL, Leza JC, Caso JR. Modulation of the antioxidant nuclear factor (erythroid 2-derived)-like 2 pathway by antidepressants in rats. *Neuropharmacology.* 2016;103:79-91. IF: 4.936. Article.
  - Ismail Z, Smith EE, Geda Y, Sultzer D, Brodaty H, Smith G, Agüera-Ortíz L, Sweet R, Miller D, Lyketsos CG; ISTAART Neuropsychiatric Symptoms Professional Interest Area. Neuropsychiatric symptoms as early manifestations of emergent dementia: Provisional diagnostic criteria for mild behavioral impairment. *Alzheimers & Dementia.* 2016;12:195-202. IF: 11.619. Article.
  - MacDowell KS, Caso JR, Martín-Hernández D, Moreno BM, Madrigal JL, Micó JA, Leza JC, García-Bueno B. The Atypical Antipsychotic Paliperidone Regulates Endogenous Antioxidant/Anti-Inflammatory Pathways in Rat Models of Acute and Chronic Restraint Stress. *Neurotherapeutics.* 2016;13:833-43. IF: 4.676. Article.
  - Ferrés-Coy A, Galofré M, Pilar-Cuéllar F, Vidal R, Paz V, Ruiz-Bronchal E, Campa L, Pazos Á, Caso JR, Leza JC, Alvarado G, Montefeltro A, Valdizán EM, Artigas F, Bortolozzi A. Therapeutic antidepressant potential of a conjugated siRNA silencing the serotonin transporter after intranasal administration. *Molecular Psychiatry.* 2016;21:328-38. IF: 13.314. Article.
  - García Bueno B, Caso JR, Madrigal JLM, Leza JC. Innate immune receptor Toll-like receptor 4 signalling in neuropsychiatric diseases. *Neuroscience and Biobehavioral Reviews.* 2016;64:134-47. IF: 8.580. Review.
  - Caso JR, Balanza-Martínez V, Palomo T, García-Bueno B. The Microbiota and Gut-Brain Axis: Contributions to the Immunopathogenesis of Schizophrenia. *Current Pharmaceutical Design.* 2016;22:6122-33. IF: 3.052. Review.
  - Morris G, Berk M, Carvalho AF, Caso JR, Sanz Y, Maes M. The Role of Microbiota and Intestinal Permeability in the Pathophysiology of Autoimmune and Neuroimmune Processes with an Emphasis on Inflammatory Bowel Disease Type 1 Diabetes and Chronic Fatigue Syndrome. *Current Pharmaceutical Design.* 2016;22:6058-75. IF: 3.052. Review.
  - Maes M, Nowak G, Caso JR, Leza JC, Song C, Kubera M, Klein H, Galecki P, Noto C, Glaab E, Balling R, Berk M. Toward Omics-Based, Systems Biomedicine, and Path and Drug Discovery Methodologies for Depression-Inflammation Research. *Molecular Neurobiology.* 2016; 53:2927-35. IF: 5.397. Review.
  - Castillo-García IM, Maestro G, Puerta S, Ostos F, Nava P, Losada I. Clozapine-induced paralytic ileus. *Actas Espanolas de Psiquiatria.* 2016;44:44-5. IF: 0.813. Letter.

# NEUROTRAUMATOLOGY AND SUBARACHNOID HAEMORRHAGE

## RESEARCH GROUP MEMBERS

### GROUP DIRECTOR

Lagares Gómez-Abascal, Alfonso

Castaño León, Ana M<sup>a</sup>  
Fernández Alén, José Antonio

Gómez López, Pedro Antonio  
Paredes Sansinenea, Igor

### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación MAPFRE	1
<b>TOTAL</b>		<b>2</b>

- Title: Valor de nuevos marcadores pronósticos en el traumatismo craneoencefálico: volumetría en TC, RM craneal y técnicas avanzadas (difusión y tractografía) y marcadores biológicos.  
Principal Investigator: Alfonso Lagares Gómez-Abascal  
Project No.: PI14/01457  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2015  
End date: 31/12/2017
- Title: Programa de intervención neuropsicológica en pacientes con daño cerebral adquirido.  
Principal Investigator: Alfonso Lagares Gómez-Abascal  
Project No.: 2016/0037  
Funding Body: Fundación MAPFRE  
Start date: 31/02/2016  
End date: 31/01/2017

## PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	6	14.444
Reviews	1	2.685
Editorials	1	0.410
<b>Total</b>	<b>8</b>	<b>17.539</b>

- Lobato RD, Jimenez Roldan L, Alen JF, Castano AM, Munarriz PM, Cepeda S, Lagares A. Competency-based Neurosurgery Residency Programme. *Neurocirugia*. 2016; 27:75-86. IF: 0.410. Article.
- Cepeda S, Gómez PA, Castaño-Leon AM, Munarriz PM, Paredes I, Lagares A. Contrecoup Traumatic Intracerebral Hemorrhage: A Geometric Study of the Impact Site and Association with Hemorrhagic Progression. *Journal of Neurotrauma*. 2016;33:1034-46. IF: 4.377. Article.
- Arikan F, Fernández-Alén J; Grupo de Trabajo de Patología Vascular de la Sociedad Española de Neurocirugía. Criteria for education and training in Interventionist-Neuro-Interventionism Neuroradiology, agreed by the Spanish Interventionist Neuroradiology Group (GENI) of the Spanish Neuroradiology Society (SENR) and the Expert Group of the Spanish Neurosurgery (SENEC) and Neurology (SEN). A basis for obtaining Accreditation in centres and specialists in Interventionist-Neuro-Interventionism Neuroradiology. *Neurocirugia*. 2016; 27:41-8. IF: 0.410. Article.
- Castaño-Leon AM, Lora D, Munarriz PM, Cepeda S, Paredes I, de la Cruz J, Gómez Lopez PA, Lagares A. Predicting Outcomes after Severe and Moderate Traumatic Brain Injury: An External Validation of Impact and Crash Prognostic Models in a Large Spanish Cohort. *Journal of Neurotrauma*. 2016;33:1598-606. IF: 4.377. Article.
- Alvarez-Alonso MJ, Morales-Muñoz I, Castaño-León AM, Lagares A, Rubio G, Jurado-Barba R. Single Case Study: Neuropsychological Functioning in a Patient Diagnosed with Intermittent Explosive Disorder Pre and Post Neurosurgery. *Spanish Journal of Psychology*. 2016; 19:E21. IF: 0.493. Article.
- Paredes I, Castaño-Leon AM, Cepeda S, Alen JF, Salvador E, Millán JM, Lagares A. The Effect of Cranioplasty on Cerebral Hemodynamics as Measured by Perfusion Computed Tomography and Doppler Ultrasonography. *Journal of Neurotrauma*. 2016;33:1586-97. IF: 4.377. Article.
- Munarriz PM, Gómez PA, Paredes I, Castaño-Leon AM, Cepeda S, Lagares A. Basic Principles of Hemodynamics and Cerebral Aneurysms. *World Neurosurgery*. 2016; 88:311-9. IF: 2.685. Review.
- Alén J, Arikan Abelló F, Lagares A. Comment on the study "Criteria for education and training in Interventionist-Neuro-Interventionism Neuroradiology, agreed by the Spanish Interventionist Neuroradiology Group of the Spanish Neuroradiology Society and the Expert Group of the Spanish Neurosurgery and Neurology. A basis for obtaining Accreditation in centres and specialists in Interventionist-Neuro-Interventionism Neuroradiology, by F. Alén et al. *Neurocirugia*. 2016;27:49-50. IF: 0.410. Editorial Material.

\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Castano-Leon AM, Hernandez-Lain A, Maronas L, Lopez P, Llorente Ayuso L, Ramos A, Perez-Regadera J, Jimenez Roldan L. Pathology-confirmed cerebral arterial invasion and recurrent multiple brain metastasis from cardiac myxoma without evidence of disease after surgery and radiotherapy. *Clinical Neuropathology*. 2016;35:84-8. IF: 1.267. Letter.

- León Ruiz M, Lagares Gómez-Abascal A, Fernández Alén JA, Benito-León J, García-Albea Ristol E. Subarachnoid haemorrhage from a ruptured intracranial mirror-like aneurysm. A case report and literature review. *Neurologia*. 2016;31:283-5. IF: 1.790. Letter.

#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Luis Jiménez Roldán  
**Title:** Valor pronóstico del volumen de sangrado intracraneal tras rotura de aneurisma cerebral.  
**Director/s:** Alfonso Lagares Gómez-Abascal, José Antonio Fernández Alén  
**Date Defended:** 08/02/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Ángel Pérez Núñez  
**Title:** Resección de meningiomas intracraneales en el anciano: factores relacionados con la mortalidad y morbilidad postoperatoria.

- Director/s:** Alfonso Lagares Gómez-Abascal, José Antonio Fernández Alén  
**Date Defended:** 01/02/2016  
**University:** Universidad Complutense de Madrid
- Candidate:** Igor Paredes Sansinenea  
**Title:** Craneoplastia: efectos de la reposición del colgajo óseo sobre la hemodinámica cerebral.  
**Director/s:** Alfonso Lagares Gómez-Abascal, José Antonio Fernández Alén, Pedro Antonio Gómez López  
**Date Defended:** 15/02/2016  
**University:** Universidad Complutense de Madrid

## ADDICTIONS AND COMORBIDITY



#### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	MSSSI	2
Noncompetitive	Various	4
<b>TOTAL</b>		<b>7</b>

- Title: Nuevas estrategias terapéuticas para el tratamiento de los trastornos por uso de alcohol.  
Principal Investigator: Gabriel Rubio Valladolid  
Project No.: PI15/00463  
Funding Body: Instituto de Salud Carlos III (ISCIII)  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: Nuevas estrategias terapéuticas para mejorar el control inhibitorio de pacientes dependientes del alcohol que han sufrido experiencias traumáticas durante la adolescencia.  
Principal Investigator: Gabriel Rubio Valladolid  
Project No.: 2015/009  
Funding Body: Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)  
Start date: 01/01/2016  
End date: 30/11/2018

- Title: Caracterización de los endofenotipos psicofisiológicos en hijos de alcohólicos.  
Principal Investigator: Isabel Martínez Gras  
Project No.: 2012/053  
Funding Body: Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)  
Start date: 01/01/2013  
End date: 31/12/2015, extended to 28/05/2016
- Title: Impacto de tratamientos farmacológicos con anti-psicóticos en la función cognitiva en pacientes bipolares en fase de eutimia.  
Principal Investigator: Gabriel Rubio Valladolid  
Funding Body: Otsuka Pharmaceutical, S.A.  
Start date: 17/12/2014  
End date: 16/12/2016
- Title: Papel del estrés en la inhibición de la respuesta de sobresalto de pacientes con esquizofrenia.  
Principal Investigator: Gabriel Rubio Valladolid

- Funding Body: Janssen-Cilag, S.A.  
Start date: 01/07/2011  
End date: 30/06/2015, extended to 31/12/2016
- Title: El reflejo de sobresalto en pacientes con trastorno por ansiedad generalizada (TAG): un método para caracterizar clínicamente a los pacientes.  
Principal Investigator: Gabriel Rubio Valladolid  
Funding Body: Pfizer Limited  
Start date: 01/02/2011  
End date: 31/03/2016
  - Title: Procesos psicofisiológicos implicados en las recaídas de pacientes diagnosticados de trastorno bipolar y abuso/dependencia de alcohol.  
Principal Investigator: Gabriel Rubio Valladolid  
Funding Body: Otsuka Pharmaceutical, S.A.  
Start date: 28/06/2012  
End date: 27/06/2015, extended to 30/04/2016

#### ACTIVE PROJECTS NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)

- Title: Implicación de la vía kinurenina en la disrupción de la barrera hematoencefálica y su relevancia en el consumo y efectos reforzantes del etanol.  
Principal Investigator: Mª Isabel Colado Megía  
Project No.: 2014I015  
Funding Body: Ministerio de Sanidad, Servicios Sociales e Igualdad. Plan Nacional sobre Drogas  
Start date: 01/02/2015  
End date: 31/01/2018
- Title: Incremento de los niveles cerebrales de ácido kinurénico como estrategia terapéutica en el abuso y la dependencia de alcohol: implicación de los Ahr.  
Principal Investigator: Mª Isabel Colado Megía  
Project No.: SAF2016-78864-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 30/12/2016  
End date: 29/12/2019

#### PUBLICATIONS\*

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	9	27.201
Reviews	2	4.231
<b>Total</b>	<b>11</b>	<b>31.432</b>

- Alvarez-Alonso MJ, Jurado-Barba R, Martinez-Martin N, Espin-Jaime JC, Bolaños-Porrero C, Ordoñez-Franco A, Rodriguez-Lopez JA, Lora-Pablos D, de la Cruz-Bértolo J, Jimenez-Arriero MA, Manzanares J, Rubio G. Association between maltreatment and polydrug use among adolescents. *Child Abuse & Neglect*. 2016;51:379-89. IF: 2.397. Article.
- Suazo V, Lubeiro A, Jurado-Barba R, Moreno-Ortega M, Domípablo M, Morales-Muñoz I, Rodríguez-Jiménez R, Palomo T, Molina V. Elevated midline-parietal gamma band noise power in schizophrenia but not in bipolar patients. *European Archives of Psychiatry and Clinical Neuroscience*. 2016;266:743-53. IF: 4.113. Article.
- García-Gutiérrez MS, Navarrete F, Aracil A, Bartoll A, Martínez-Gras I, Lanciego JL, Rubio G, Manzanares J. Increased vulnerability to ethanol consumption in adolescent maternal separated mice. *Addiction Biology*. 2016;21:847-58. IF: 4.547. Article.
- Romero A, Ramos E, Patino P, Oset-Gasque MJ, Lopez-Munoz F, Marco-Contelles J. Melatonin and Nitrones As Potential Therapeutic Agents for Stroke. *Frontiers in Aging Neuroscience*. 2016;8:281. IF: 4.348. Article.
- Martinez-Gras I, Ferre Navarrete F, Pascual Arriazu J, Penas Pascual J, de Iceta Ruiz de Gauna M, Fraguas Herraez D, Rubio Valladolid G; GIPA. Psychiatric comorbidity in a sample of cocaine-dependent outpatients seen in the Community of Madrid drug addiction care network. *Adicciones*. 2016;28:6-17. IF: 1.780. Article.
- Morales-Muñoz I, Jurado-Barba R, Fernández-Guinea S, Rodríguez-Jiménez R, Jiménez-Arriero MÁ, Criado JR, Rubio G. Sensory Gating Deficits in First-Episode Psychosis Evidence From Neurophysiology, Psychophysiology, and Neuropsychology. *Journal of Nervous and Mental Disease*. 2016;204:877-84. IF: 1.836. Article.
- Alvarez-Alonso MJ, Morales-Muñoz I, Castaño-León AM, Lagares A, Rubio G, Jurado-Barba R. Single Case Study: Neuropsychological Functioning in a Patient Diagnosed with Intermittent Explosive Disorder Pre and Post Neurosurgery. *Spanish Journal of Psychology*. 2016;19:E21. IF: 0.493. Article.
- Rodríguez-Arias M, Navarrete F, Blanco-Gandia MC, Arenas MC, Bartoll-Andrés A, Aguilar MA, Rubio G, Miñarro J, Manzanares J. Social defeat in adolescent mice increases vulnerability to alcohol consumption. *Addiction Biology*. 2016;21:87-97. IF: 4.547. Article.
- Ponce G, Quiñones-Lombraña A, Martín-Palanco NG, Rubio-Solsona E, Jiménez-Arriero MÁ, Palomo T, Hoenicka J. The Addiction-Related Gene Ankk1 is Oppositely Regulated by D1R- and D2R-Like Dopamine Receptors. *Neurotoxicity Research*. 2016;29:345-50. IF: 3.140. Article.
- Perez Fernandez F, Lopez-Munoz F, Martin-Moreno Blasco C, Garcia Cortes A. Notes for understanding the simulation of symptoms in diagnostic contexts. A historical sketch. *Revista de Historia de la Psicología*. 2016;37:2-11. IF: N/A. Article.

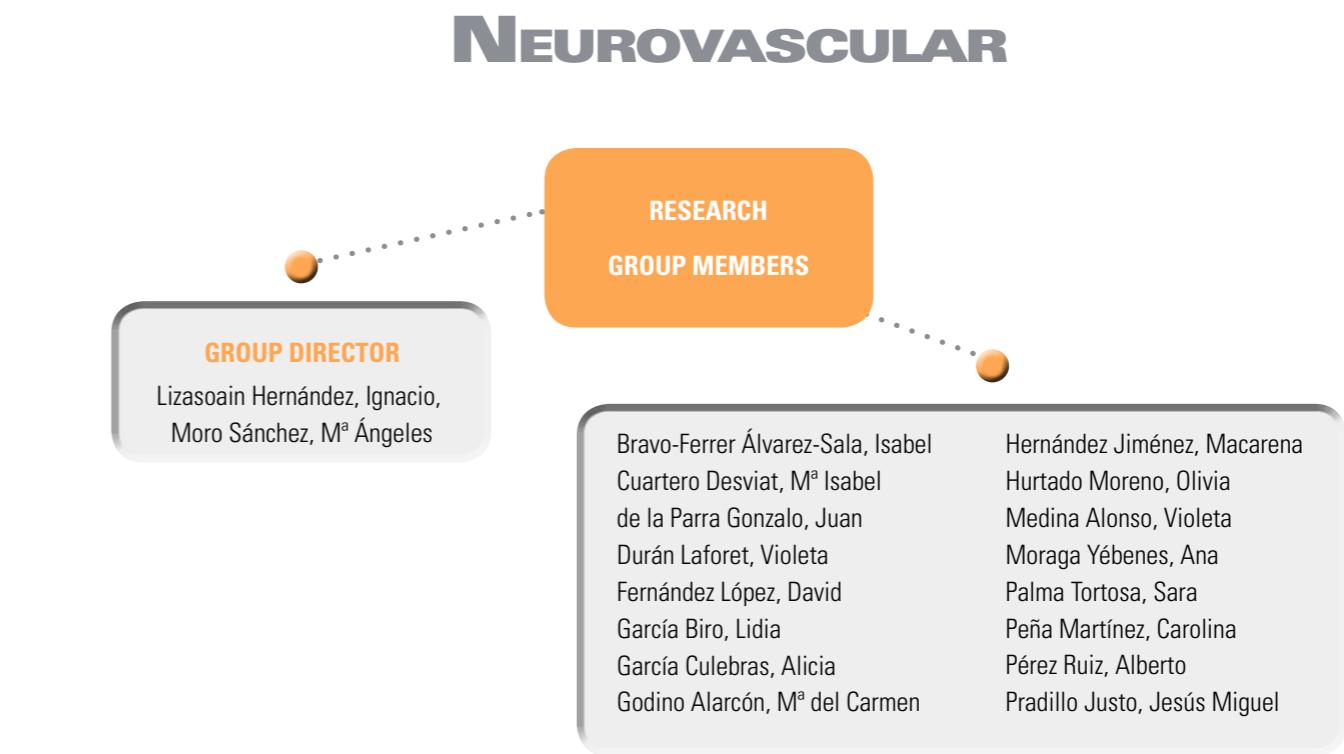
\*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2015 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- García-Marchena N, Araos PF, Barrios V, Sánchez-Marín L, Chowen JA, Pedraz M, Castilla-Ortega E, Romero-Sanchiz P, Ponce G, Gavito AL, Decara J, Silva D, Torrens M, Argente J, Rubio G, Serrano A, de Fonseca FR, Pavón FJ. Plasma Chemokines in Patients with Alcohol Use Disorders: Association of CCL11 (Eotaxin-1) with Psychiatric Comorbidity. *Frontiers in Psychiatry*. 2016; 7:214. IF: N/A. Article.
- Povedano Montero FJ, López-Muñoz F, Hidalgo Santa Cruz F. Bibliometric analysis of the scientific production in the area of Optometry. *Archivos de la Sociedad Española de Oftalmología*. 2016;91:160-9. IF: N/A. Article.
- Cacabelos R, Torrellas C, Fernandez-Novoa L, Lopez-Munoz F. Histamine and Immune Biomarkers in CNS Disorders. *Mediators of Inflammation*. 2016;2016:1924603. IF: 3.418. Review.
- Alamo C, López-Muñoz F, Sánchez-García J. Mechanism of action of guanfacine: a postsynaptic differential approach to the treatment of attention deficit hyperactivity disorder (ADHD). *Actas Espanolas de Psiquiatria*. 2016;44:107-12. IF: 0.813. Review.
- López-Muñoz F, Cuerda-Galindo E. Suicide in Inmates in Nazis and Soviet Concentration Camps: Historical Overview and Critique. *Frontiers in Psychiatry*. 2016;7:88. IF: N/A. Review.
- De-Sola Gutiérrez J, Rodríguez de Fonseca F, Rubio G. Cell-Phone Addiction: A Review. *Frontiers in Psychiatry*. 2016; 7:175. IF: N/A. Review.

#### THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Marta Marín Mayor  
**Title:** El reflejo de sobresalto en la dependencia del alcohol.  
**Director/s:** Gabriel Rubio Valladolid  
**Date Defended:** 11/01/2016  
**University:** Universidad Complutense de Madrid
- **Candidate:** Mª Dolores Riaza Pérez  
**Title:** Relevancia de la sintomatología depresiva en pacientes con psicosis.  
**Director/s:** Gabriel Rubio Valladolid

- Date Defended:** 01/03/2016  
**University:** Universidad Complutense de Madrid
- **Candidate:** Mercedes Pérez Hernández  
**Title:** Cambios inducidos por MDMA sobre la actividad de las metaloproteínas e integridad de la barrera hematoencefálica.  
**Director/s:** Mª Isabel Colado Megía  
**Date Defended:** 01/07/2016  
**University:** Universidad Complutense de Madrid



#### ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	MINECO	1
<b>TOTAL</b>		<b>1</b>

- Title: Papel del TLR4 plaquetario en el ictus.  
Principal Investigator: Ignacio Lizasoain Hernández  
Project No.: SAF2014-52225-R  
Funding Body: Ministerio de Economía y Competitividad (MINECO)  
Start date: 01/01/2015  
End date: 31/12/2017

**ACTIVE PROJECTS NOT MANAGED****BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH120)**

- Title: Desarrollo preclínico de una molécula basada en tecnología de aptámeros específica de TLR-4 y de aplicación en Ictus Agudo y Enfermedades Cardiovasculares (Infarto de Miocardio).

Principal Investigator: Ignacio Lizasoain Hernández

Project No.: RTC2015-3741-1

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/03/2015

End date: 31/12/2017

- Title: La disfunción cerebral durante el envejecimiento y su relevancia para la enfermedad de Alzheimer.

Principal Investigator: Mª Ángeles Moro Sánchez

Project No.: CSD2010-00045

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 27/12/2010

End date: 26/06/2016

- Title: Nuevas dianas terapéuticas en la enfermedad cerebrovascular aguda y crónica: el receptor de hidrocarburos aromáticos (AHR).

Principal Investigator: Mª Ángeles Moro Sánchez

Project No.: SAF2015-68632-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2016

End date: 31/12/2019

toll-like receptor 4 on cell proliferation and inflammation after cerebral ischemia by positron emission tomography. *Journal of Cerebral Blood Flow and Metabolism*. 2016; 36:702-8. IF: 4.929. Article.

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- Cuartero MI, de la Parra J, García-Culebras A, Ballesteros I, Lizasoain I, Moro MA. The Kynurenone Pathway in the

Acute and Chronic Phases of Cerebral Ischemia. *Current Pharmaceutical Design*. 2016;22:1060-73. IF: 3.052. Article.

- Diane A, Pierce WD, Kelly SE, Sokolik S, Borthwick F, Jacome-Sosa M, Mangat R, Pradillo JM, Allan SM, Ruth MR, Field CJ, Hutcheson R, Rocic P, Russell JC, Vine DF, Proctor SD. Mechanisms of Comorbidities Associated With the Metabolic Syndrome: Insights from the JCR:LAcp Corpulent Rat Strain. *Frontiers in Nutrition*. 2016;3:44. IF: N/A. Review.

**PUBLICATIONS\***

Type of Document	No. of Documents	$\Sigma$ FI (JCR 2015)
Articles	5	24.484
<b>Total</b>	<b>5</b>	<b>24.484</b>

- Maysami S, Wong R, Pradillo JM, Denes A, Dhungana H, Malm T, Koistinaho J, Orset C, Rahman M, Rubio M, Schwaninger M, Vivien D, Bath PM, Rothwell NJ, Allan SM. A cross-laboratory preclinical study on the effectiveness of interleukin-1 receptor antagonist in stroke. *Journal of Cerebral Blood Flow and Metabolism*. 2016;36:596-605. IF: 4.929. Article.

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Gauberti M, Grudzenksi S, Lizasoain I, Lo E, Macrez R, Margail I, Maysami S, Meairs S, Nighoghossian N, Orbe J, Paramo JA, Pariente JJ, Rothwell NJ, Rubio M, Waeber C, Young AR, Touzé E, Vivien D. Efficacy of Alteplase in a Mouse Model of Acute Ischemic Stroke: A Retrospective Pooled Analysis. *Stroke*. 2016;47:1312-8. IF: 5.787. Article.

- Moraga A, Gómez-Vallejo V, Cuartero MI, Szczupak B, San Sebastián E, Markuerkiaga I, Pradillo JM, Higuchi M, Llop J, Moro MÁ, Martín A, Lizasoain I. Imaging the role of

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