

ANNUAL SCIENTIFIC REPORT

2017



Instituto de Investigación
Hospital 12 de Octubre



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PRESENTATION

Once again, it is a pleasure to present the Annual Scientific Report of Instituto de Investigación Hospital 12 de Octubre (Instituto i+12), which details our scientific output during the year 2017.

I would like to start by mentioning that December 2017 saw the end of the agreement for the creation of the Instituto. Throughout the year, we have been working to prepare a new addendum for the renewal of the current agreement, which was signed on December 15, 2017.

The most noteworthy activities undertaken at Instituto i+12 during 2017 include the scientific restructuring of the organization. In December 2016, Instituto i+12 was organized into 8 broad scientific areas, which were initially defined when the Institute was set up. The year 2017 gave us time to reflect on the current situation of our research groups and their scientific interests. As a result, we agreed to restructure our scientific organization by creating new areas and merging others.

Thus, in 2017, the new scientific structure of Instituto i+12 was designed and now comprises 9 main areas of research that include 58 groups.

In addition to the scientific reorganization, the management of Instituto i+12 worked on redefining the categories in the research groups in order to take account of their current situation.

In association with improvements in management activities, the first 6 months of 2017 saw us work on the design of a new computer application to handle requests for services from the support platforms of Instituto i+12. The application, known as ScheMas, was implemented in July 2017 as a single system for reserving services.

In order to respond to the needs and requirements of Instituto i+12's governing and advisory bodies and to improve the activity carried out at institutional level, a new working group (Grupo de Trabajo para la Identificación de Mejoras en el Instituto i+12 [GTIMI+12]) was set up in September 2017 to identify areas for improvement.

As in previous years, in 2017 we sent out satisfaction surveys to management and to 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.

It is noteworthy that the results presented in the report clearly show how the scientific quality of Instituto i+12 is constantly improving.

Our scientific output has increased steadily over the years. The total number of publications from consolidated and emerging research groups and associated clinical researchers from Instituto i+12 has grown during the last 5 years, in terms of both original articles and reviews and editorials, reaching 827 publications indexed in 2017, with a cumulative impact factor of 4,655.827 points. Slightly more than half of the publications -52.36%- were published in first-quartile journals, and of these, 41.57% were in first-decile journals. The data represent a considerable increase with respect to the scientific output generated in 2016 and show the trend towards increased scientific output in recent years. Similarly, during 2016, our researchers obtained funding for more than 37 research projects through both public and private competitive calls at national and international level and have been contracted for 254 clinical trials and observational studies, that is, 26% more clinical studies than in 2016. The year 2017 also saw an increase in the number of theses directed and/or defended by members of Instituto i+12 (46) and a major increase in the number of clinical practice guidelines published.

Also noteworthy, the activity of our Unidad de Apoyo a la Innovación (UAI [*Innovation Support Unit*]) increased during the year, thus ensuring continued consolidation of the unit. One of the key tasks carried out by the UAI is that of providing consultancy services to all Instituto i+12 researchers on innovation and knowledge transfer, including evaluation of ideas, support in protection of intellectual property rights, search for technology and/or commercial partners, and design of projects.

As in previous years, and with the awareness of the need to establish mechanisms to stimulate and promote research at Instituto i+12, the FIBH12O ensured that its 2017 Action Plan included the necessary funding to open intramural calls for intensification of research and innovation grants. These grants were aimed at various types of professional. It also included funding for a call for grants aimed at the incorporation of train-

ees in research groups and a call for a grant aimed at the incorporation of a head of residents/researcher, which was highly successful and won considerable praise.

Once again, our Annual Scientific Report provides us with the opportunity to showcase our achievements and improvements, which are the fruit of the day-to-day efforts and total dedication of all the professionals who make up Instituto i+12.

Finally, I would like to thank our researchers, coworkers, managers, and other members for their magnificent work and the results achieved.

Warm regards,

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:



- Servicio Madrileño de Salud (Madrid Health Service), through Hospital Universitario 12 de Octubre and primary care.
- Universidad Complutense de Madrid.
- Universidad Autónoma de Madrid.
- Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT).
- Universidad Europea (UE).
- Fundación para la Investigación Biomédica del Hospital Universitario 12 de Octubre.
- Dirección General de Investigación, Formación e Infraestructuras Sanitarias de la Consejería de Sanidad de la Comunidad de Madrid.

MISIÓN, VISION AND VALUES

MISSION

"To develop research and innovation activities in a setting of excellence and quality that make it possible to translate results to the resolution of the health problems of the general population by promoting cooperation and alliances with other agents in the public and private sectors".

VISION

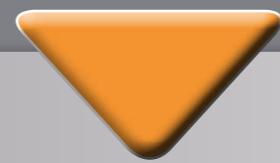
"Instituto de Investigación Hospital 12 de Octubre aims to become a reference center for multidisciplinary biomedical research in the fields of clinical and translational research at both national and international level. Similarly, Instituto i+12 aims to become a reference center for teaching, both through Universidad Complutense de Madrid and Universidad Autónoma de Madrid, and for postgraduate training at Hospital Universitario 12 de Octubre.

Instituto i+12 will act as a driver for the generation and dissemination of knowledge, with emphasis on promotion of innovation and fast and effective translation of results to clinical practice, especially patient care, in order to develop new diagnostic and treatment methods for the diseases that most affect the population by promoting cooperation and alliances with other agents in the public and private sectors".

VALUES

- High-level scientific and technical skills.
- Commitment to and identification with Instituto i+12.
- Cooperation between basic and clinical research and promotion of synergies.
- Sensitivity to the needs of society.
- Search for excellence through continuous evaluation and improvement.
- Optimization and sharing of resources.
- Strategic alignment.
- Innovation, knowledge transfer, and resolution of health problems.
- Cooperation and openness to alliances with other agents.
- International outlook.

ORGANIZATIONAL STRUCTURE



Governing Bodies

Governing Council

Delegated Commission

Directorate

Sub-Directorate

Advisory Bodies

Scientific Advisory Board

Research Committee

Ethics Committees

Ethics Committee for Research with medical products (ECR)

Ethics Committee for Animal Welfare

Management and Administration

Financial-Administrative Management Area

Scientific Management Area

General Organizational Structure of Instituto i+12

Consistent with the requisites set out in Article 3 of Royal Decree 279/2016, dated July 5, on certification of Biomedical and Health Research Institutes and as stipulated in Clause 6 of the Cooperation Agreement, the organizational structure of Instituto i+12 includes governing, management, advisory, and operational bodies. The main governing body is the Goberning Council, which includes the Patronato de la Fundación para la Investigación Biomédica del Hospital 12 de Octubre. All of the bodies making up the Instituto i+12 are represented in both the Goberning 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

The Goberning Council is the governing body for representation, management, and administration of Instituto i+12. All the organizations that make up Instituto i+12 are represented in this body, as reflected in the Cooperation Agreement and as stipulated in RD 279/2016. The composition of the Goberning Council is stipulated in clause 7 of the Cooperation Agreement for the creation of Instituto i+12. The Goberning Council is formed by the persons set out below.

CHAIR - Manuel Molina Muñoz

Vice-Councillor of Health Care, Servicio Madrileño de Salud.

First Vice-Chair - Ignacio Lizasoain Hernández

Vice-Rector of Scientific Policy, Research and Doctoral Studies of the UCM.
Representative of the Universidad Complutense de Madrid (UCM).

Second Vice-Chair - Rafael Garesse Alarcón

Rector of the UAM. Representative of the Universidad Autónoma de Madrid (UAM).

Members

Carmen Martínez de Pancorbo González

Managing Director, Hospital Universitario 12 de Octubre and President of the Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120).

Antonio Jesús Roldán Rodríguez-Marín

Member of the Board of Trustees, FIBH120, Vice-Chair.

José Nieves González

Member of the Board of Trustees, FIBH120.

Mª Andión Goñi Olanga

Member of the Board of Trustees, FIBH120.

Joaquín Arenas Barbero

Member of the Board of Trustees, FIBH120 and Director of Instituto i+12.

Mª Puy Goyache Goñi

Member of the Board of Trustees, FIBH120.

Mª Ángeles Moro Sánchez

Member of the Board of Trustees, FIBH120.

Miriam Rabaneda Gudiel

Member of the Board of Trustees, FIBH120.

José Luis Pablos Álvarez

Member of the Board of Trustees, FIBH120, and representative of the Research Committee of Instituto de Investigación Hospital 12 de Octubre (i+12).

José Luis Álvarez-Sala Walther

Deacon of the School of Medicine, UCM.

José Manuel Cuevra Marcos

Representative of the UAM.

Jesús Mª Paramio González

Representative of the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT [Center for Research in Energy, Environment, and Technology]).

Sergio Calvo Fernández

Representative of Universidad Europea (UE).

Agustín Gómez de la Cámara

Representative of the Research Committee of Instituto de Investigación Hospital 12 de Octubre (i+12).

Secretary - Mª del Mar López Martín

Director of FIBH120.

Delegated Commission

The Delegated Commission is the executive governing body of Instituto i+12. All of the entities from the centers that make up the Institute are represented in this body and in the Goberning Council, as reflected in the cooperation agreement and as established by the requirements of Royal Decree 279/2016. The Delegated Commission is formed by the following members of the Goberning Council:

CHAIR - Carmen Martínez de Pancorbo González

Managing Director of Hospital Universitario 12 de Octubre.

Members

Joaquín Arenas Barbero

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

Antonio Jesús Roldán Rodríguez-Marín

Representative of Hospital Universitario 12 de Octubre.

José Nieves González

Representative of Hospital Universitario 12 de Octubre.

José Luis Álvarez-Sala Walther

Representative of UCM.

José Manuel Cuevra Marcos

Representative of UAM.

Jesús Mª Paramio González

Representative of CIEMAT.

Sergio Calvo Fernández

Representative of UE.

José Luis Pablos Álvarez

Representative of the Research Committee of i+12.

Agustín Gómez de la Cámara

Representative of the Research Committee of i+12.

Directorate

Given the guidelines set out in Royal Decree 279/2016, the organizational structure of Instituto i+12 has a Scientific Director, who acts as Director of the Institute and is the person responsible for executive management. The Scientific Director has a series of additional functions.

The Director of Instituto i+12 is appointed and relieved by the Gorbening Council.

The position of Director of Instituto i+12 is currently held by:

Joaquín Arenas Barbero

Sub-Directorate

With the growth and development of Instituto i+12 in recent years, the Scientific Management of the organization considered it necessary to establish the Scientific Sub-Directorate.

The main function of the Scientific Sub-Directorate is to support the management of the Institute in all relevant activities when necessary, in such a way that it streamlines the work of the Scientific Directorate and guarantees appropriate performance of its functions.

The Scientific Subdirector is proposed by the Directorate of the Institute and removed by the Gorbening Council.

The position of Scientific Subdirector is currently held by:

Juan Carlos Leza Cerro

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

ADVISORY BODIES

Scientific Advisory Board

The Scientific Advisory Board is the main advisory body of Instituto i+12. Its priority mission is to monitor the scientific quality of the Institute and to advise the Scientific Directorate and the Governing Bodies.

This committee is formed by a team of professionals who are highly qualified and experienced in the field of research.

The members of the Scientific Advisory Board are appointed and relieved by the Gorbening Council of Instituto i+12. They belong to the committee for 4 years and can be re-elected for the same period.

The members who currently make up the Scientific Advisory Board of Instituto i+12 are the following:

CHAIR - Jerónimo Pachón Díaz

Professor of Medicine, Universidad de Sevilla.
Director of the Clinical Unit for Infectious Diseases, Microbiology, and Preventive Medicine
of Hospital Universitario Virgen del Rocío, Sevilla.

Alvar Agustí García-Navarro

Director of Institut Clínic del Tórax, Hospital Clínic, Barcelona.

Antonio L. Andreu Periz

General Director of Recerca i Innovació en Salut, Departament de Salut,
Generalitat de Catalunya.

Joaquín Vicente Arribas López

Scientific Director, Centro de Investigación Biomédica en Red de Cáncer -
CIBERONC. Director of Preclinical Research, Instituto de Oncología Vall
D'Hebron – VHI, Barcelona.

Carmen Ayuso García

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

Rafael Bañares Cañizares

Vice-Deacon for Evaluation of Quality and Innovation, Facultad de
Medicina de la UCM, Head of the Digestive Medicine Service, 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.

Coordinator - Joaquín Arenas Barbero

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

Research Committee

The Research Committee is the body that advises and supports the Scientific Directorate of the Institute in the performance of its functions. It comprises a minimum of 8 and maximum of 17 members.

The Research Committee is presided over by the Directorate of Instituto i+12.

The 9 Areas of Instituto i+12 are represented on the Research Committee through the Area Coordinators and coordinators of staff researchers at the Institute. The Training Coordinator and the Quality Coordinator of the Institute are also part of this Committee.

The members of the Research Committee are appointed and removed by the Gorbeneing Council on the proposal of the consolidated research groups of the Institute and of the Scientific Directorate. Members belong to the Research Committee for a period of 4 years and may be re-elected for the same period.

The Research Committee of Instituto i+12 is currently composed of the following members:

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 Transplantation Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

Miguel Ángel Martín Casanueva

Rare and Genetically Based Diseases Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

Agustín Gómez de la Cámara

Coordinator of the Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems Research Area and Training Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12).

Héctor Bueno Zamora

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

Secretary - M^a 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 of the Neurosciences and Mental Health Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12).

Francisco Javier Fernández Martínez

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

Eva M^a Carro Díaz

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

ETHICS COMMITTEES

Instituto i+12 has a further 2 advisory bodies whose mission is to evaluate ethical issues both in clinical trials with humans, Ethics Committee for Research with medical products (ECR) and in research with animals, Ethics Committee for Animal Welfare.

Ethics Committee for Research with medical products (ECR)

The latest Royal Decree on Clinical Trials, RD 1090/2015, dated December 4, defines the Ethics Committee for Research with medical products (ECR) as a Research Ethics Committee that is also certified to provide an opinion on a clinical study with medicines and in clinical research with health care products.

Hospital Universitario 12 de Octubre provides Instituto i+12 with the Ethics Committee for Research with medical products (ECR) for the evaluation of bioethical issues in clinical trials performed with medicines for use in humans by researchers from the institute.

The current members of the ECR of Instituto i+12 are the following:

CHAIR - M^a del Puy Goyache Goñi

Pharmacist, Hospital Pharmacy.

Vice-Chair - Luis Manuel Manso Sánchez

Physician, Oncology.

Secretary - M^a Ugalde Díez

Doctor of Biological Science.

Members

M^a Luisa Albelda de la Haza

Law Graduate.

Rafael Delgado Vázquez

Head of the Molecular Microbiology Department (CI).

M^a de las Mercedes Catalán González

Physician, Intensive Care.

Eduardo Gutiérrez Martínez

Physician, Nephrology.

M^a Pilar Hernández Suárez

University Diploma in Nursing (CEAS).

Ana Jiménez Ubieto

Physician, Hematology and Hemotherapy.

Francisco Javier Mazuecos Gómez

Social Worker, Ayuntamiento de Madrid.

César Minué Lorenzo

Family Physician, Servicio Madrileño de Salud.

Montserrat Pilas Pérez

University Diploma in Nursing.

M^a del Carmen Riesco Martínez

Physician, Oncology.

Yolanda Rodríguez Gil

Physician, Histopathology.

Roberto Rodríguez Jiménez

Physician, Psychiatry.

Lourdes Cabrera García

Clinical Pharmacologist, Hospital Clínico Madrid.

Raquel Siguín Gómez

Pharmacist, Primary Care.

Rosa M^a Vega Viaña
Clinical Trials Platform, SCReN.

Sagrario Alegre Alonso
Coordinator, AECC.

M^a del Mar Espino Hernández
Pediatric Nephrology.

Alejandro Herrero San Martín
Physician, Neurology.

Julián Palomino Doza
Physician, Cardiology.

Ethics Committee for Animal Welfare

Hospital Universitario 12 de Octubre has an Ethics Committee for Animal Welfare composed of members of the Instituto de Investigación Hospital 12 de Octubre. Taking into consideration the law set out in Royal Decree 53/2013, the members of this Committee are the following:

CHAIR - José Luis Pablos Álvarez

Representative of the Research Committee, Instituto de Investigación Hospital 12 de Octubre (i+12).

Members

Miguel Ángel Martín Casanueva
Head of Translational Research Platforms.

Ángel Tejido Sánchez
Representative of the Academic Committee, H120.

M^a López Berlanga
Quality Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12).

Secretary - Montserrat Grau Sanz

Specialist in Animal Welfare.

MANAGEMENT AND ADMINISTRATION

Financial-Administrative Management Area

The Financial-Administrative Management Area of Instituto i+12 is the technical unit of Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120). It is organized into 5 main units.

Head - M^a 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

After the constitution and start-up of Instituto i+12, the management structure was gradually strengthened year after year with the incorporation of various units that made it possible to extend the portfolio of management services the Institute offered, thus diversifying its activities.

These units were organized into the Scientific Management Area, with the aim of creating an integrated structure for management by the professionals of Instituto i+12.

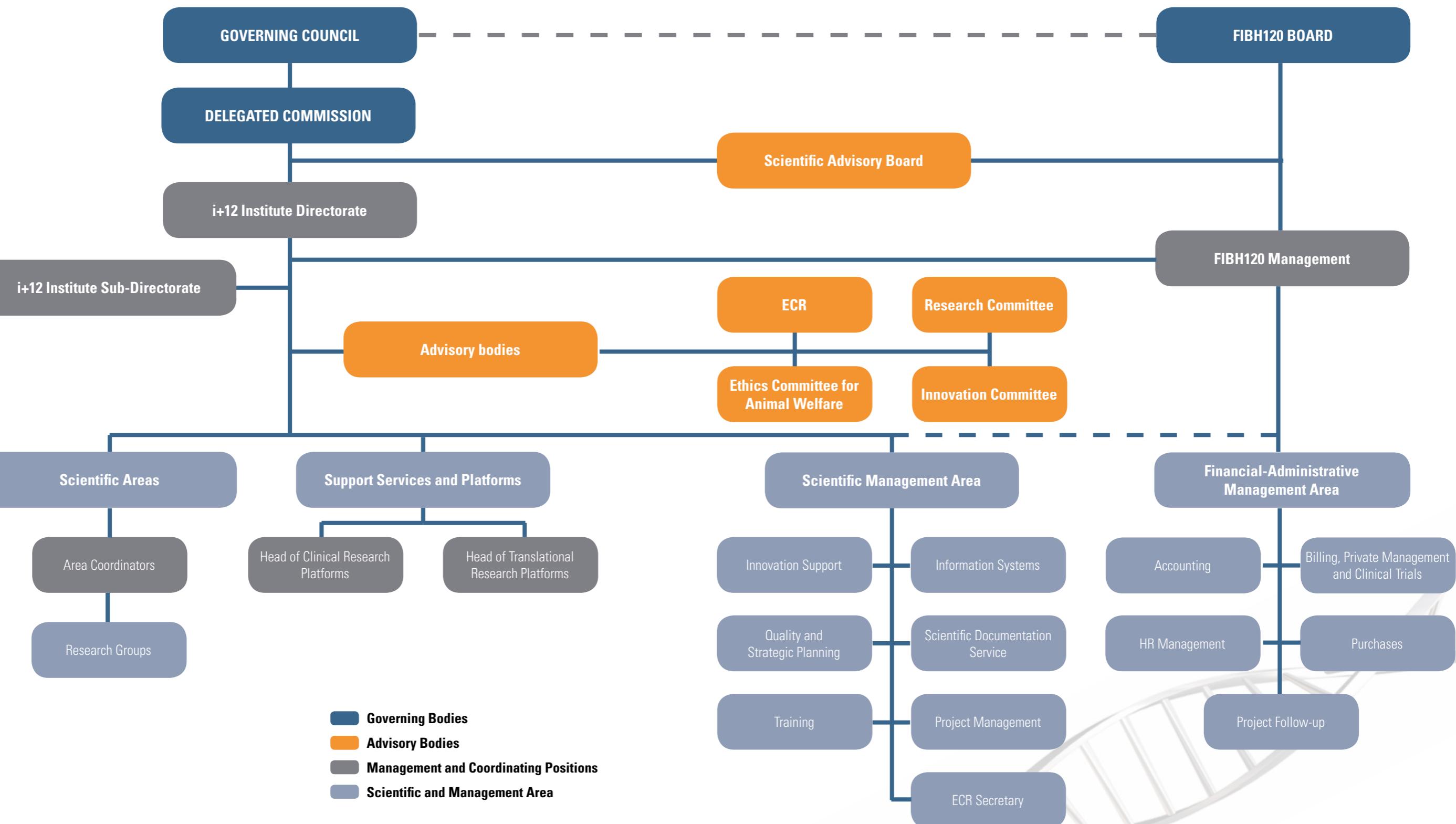
The Scientific Management Area is currently made up of the following units:

Head - Joaquín Arenas Barbero

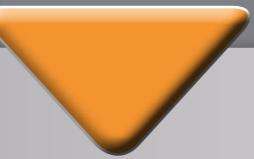
Director, Instituto de Investigación Hospital 12 de Octubre (i+12).

- Quality and Strategic Planning Unit
- Innovation Support Unit
- Training Unit
- Project Management Unit
- Information Systems Unit
- Technical Secretary, Ethics Committee
- 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 Unit

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 2017 are set out below.

Management of Accredited Research Institutes	
Management of Accredited Research Institutes	1
	1
Researchers	
Stabilization Program contracts - ISCIII	4
Stabilization Program contracts - MICINN	1
Researcher contracts SNS-Miguel Servet-ISCIII	7
Juan Rodés contracts	3
Researchers' platform	13
CIBER researchers	10
	38
Researchers who Have Completed Specialized Training in Health Care	
Río Hortega-ISCIII researchers	6
Researchers who have completed specialized training in health care-i+12	1
	7
Postdoctoral Researchers	
Sara Borrell contracts	2
Postdoctoral-MICINN contracts	1
	3
	TOTAL
	240
Predoctoral Researchers	
Predoctoral researchers in training in health research-ISCIII	2
Predoctoral contracts for training in health care-MICINN	1
Grant/Contract for training of university teaching staff FPU-MEC	1
	4
Researchers Assigned to Research Projects	
Researchers assigned to i+12 projects	29
Researchers assigned to ECM - i+12 projects	41
Researchers assigned to public projects	46
Researchers assigned to private projects	49
	165
Support Technicians	
Technician Stabilization Program contracts - ISCIII	2
Support Technician contracts - Comunidad de Madrid	18
Research Support Technicians - i+12	2
	22

Contracts funded by public bodies and awarded in 2017 are set out below.

Contracts of Management in Health Research in accredited IIS:

Román Barredo Torices

Río Hortega-ISCIII contracts:

María Ruiz Ruigómez

Paloma Talayero Giménez de Azcárate

Asunción Díaz Serrano

Sara Borrell-ISCIII contracts:

María Pedraza Botí

Mobility of research personnel contracted within the framework of the AES (M-AES)-ISCIII:

Jon Zugazagoitia Fraile

Mónica Muñoz Úbeda

Mobility of health professionals and researchers from SNS (M-BAE)-ISCIII:

Cristina Ugalde Bilbao

Alberto Villarejo Galende

Grants for incorporation of trainees in research groups and laboratory technicians cofunded by the European Social Fund via the Operational Youth Employment Program and Youth Employment Initiative (YEI) - Consejería de Educación, Juventud y Deporte, Comunidad de Madrid - 2016 call:

- 3 contracts for research assistants, tutored by:

Héctor Bueno Zamora

Mª Isabel González Tomé

Daniel Rueda Fernández

- 4 contracts for laboratory technicians, tutored by:

Antonio Cruz Rodríguez

Ana Isabel Flores de la Cal

Francisco Martínez Azorín

Mª Jesús Morán Bermejo

Grants for the incorporation of predoctoral researchers and postdoctoral researchers cofunded by the European Social Fund via the Operational Youth Employment Program and Youth Employment Initiative (YEI) - Consejería de Educación, Juventud y Deporte, Comunidad de Madrid - 2016 call:

- 3 contracts for predoctoral researchers, tutored by:

Rocío García Carbonero

Estela Paz Artal

Alberto García Redondo

- 1 contract for postdoctoral researchers, tutored by:

Luis Gonzaga Paz-Ares Rodríguez

Grants for the incorporation of predoctoral researchers and postdoctoral researchers cofunded by the European Social Fund via the Operational Youth Employment Program and Youth Employment Initiative (YEI) - Consejería de Educación, Juventud y Deporte, Comunidad de Madrid - 2017 call:

- 7 contracts for predoctoral researchers, tutored by:

Rosa Mª Ayala Díaz

José Manuel Bautista Santa Cruz

Rocío García Carbonero

Miguel Ángel Martín Casanueva

Francisco Martínez Azorín

Joaquín Martínez López

Luis Gonzaga Paz-Ares Rodríguez

- 1 contract for postdoctoral researchers, tutored by:

Begoña García Álvarez

Grants for the training of university lecturers (FPU) - Secretaría de Estado de Educación, Formación Profesional y Universidades. Ministerio de Educación, Cultura y Deporte:

Javier Ramos Paradas

Fernando de Castro contracts for young post-internship researchers - Universidad Complutense de Madrid:

Rocío Laguna Goya





Grants from the Scientific Foundation of AECC to researchers in cancer - AECC:

Beatriz Soldevilla Navarro

Grant to fund the incorporation of a Head of Residents/Researcher at Instituto de Investigación Hospital 12 de Octubre - i+12:

Jesús Abelardo Barea Mendoza

Grant to fund the incorporation of a support technician for the Proteomics Unit of i+12:

Inés García-Consuegra Galiana

Award for extending studies from the research group "Thoracic and Clinical-Translational Oncology" of Instituto de Investigación Hospital 12 de Octubre - i+12:

Laura Ojeda Márquez

Grant to fund attendance at II Congreso Nacional SEFSE-AREDA for tutors of residents - i+12:

María Calatayud Gutiérrez

Research grant program funded by Janssen Cilag aimed at the following research groups:

- Incorporation of a trainee in the i+12 research project entitled "Aplicabilidad de inhibidores de CDK4 en el Cáncer de Vejiga" - i+12:

Carolina Rubio Martín

- Incorporation of a trainee in the i+12 research project entitled "Impacto de la implantación de una consulta 2.0 en la efectividad y seguridad de los pacientes con terapia antineoplásica oral" - i+12:

Pedro Pablo Rodríguez Quesada

- Incorporation in the research group "Thoracic and Clinical-Translational Oncology" of Instituto de Investigación Hospital 12 de Octubre - i+12:

Virginia Pardo Marqués

Inmaculada García Ruiz

- Research in "Virology - HIV/AIDS" of Instituto de Investigación Hospital 12 de Octubre - i+12:

Mireia Santacreu Guerrero

Call for grants associated with research projects started in 2017 - i+12:

José Perea García

Luis Miguel Allende Martínez

Rosa Mª Ayala Díaz

Mónica García Álvarez

Pablo Rojo Conejo

Mª Inmaculada Rapado Martínez

Irene Ferrer Sánchez

CARE STAFF WHO BENEFITED FROM GRANTS FOR INTENSIFICATION OF RESEARCH ACTIVITY

Intensification of research activity for clinicians - i+12.

Luis Miguel Allende Martínez

Fernando Arribas Ynsaurriaga

Rosa Mª Ayala Díaz

Julián Benito León

Daniel Blázquez Gamero

Patricia Carreira Delgado

Daniel Castellano Gauna

Teresa Cavero Escribano

Eva Mª Ciruelos Gil

Laura Domínguez Pérez

Pilar Escribano Subiás

Adolfo Fontenla Cerezuela

María Galindo Izquierdo

Rocío García Carbonero

Mª Elena García Manzanares

Carlos Gómez Martín

Carlos González Gómez

Ignacio Herraiz García

Lara Carmen Iglesias Docampo

Antonio Laluezá Blanco

Manuel Lizasoáin Hernández

María López Gil

José Antonio López Martín

Francisco López Medrano

Carlos Lumbrales Bermejo

Joaquín Martínez López

Pilar Martínez Sánchez

Montserrat Morales Conejo

Enrique Morales Ruiz

Mª Ángeles Orellana Miguel

José Luis Pablos Álvarez

Carmen Rosa Pallás Alonso

Ana Pérez de Ayala Balzola

David Andrés Pérez Martínez

Santiago Ponce Aix

Federico Pulido Ortega

Alfredo Rodríguez Antolín

Antonia Rodríguez Izquierdo

Roberto Rodríguez Jiménez

Pablo Rojo Conejo

Juan Manuel Sepúlveda Sánchez

Antonio Serrano Hernández

Mª Pilar Tejada Palacios

Alberto Villarejo Galende

Intensification of research activity for nursing staff - i+12.

Marta Díaz García

Mª Jesús Domínguez Simón

Mª Luisa Lorite Gutiérrez

Juan José Peche Merelo

Mª Luz Romero Madueño

Ana Belén Salamanca Castro

Intensification of research activity for nonclinical healthcare specialized technical personnel for the development of an innovation project - i+12.

Antonio Martín González



TECHNOLOGICAL RESOURCES

Research Support Services cooperate in the activities of groups from Instituto i+12. Each service maintains state-of-the-art technology infrastructure within its area and is designed to simulate new technologies as they appear and develop.

The services are available to all users and are highly competitive. The units themselves carry out research projects together with their own and external research groups in order to improve the technologies and methodologies used.

The Research Support Services that the Instituto i+12 makes available to its researchers are the following:

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 (sixth floor). 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 methodologies of interest for research staff. The services offered can be used by researchers from Instituto i+12 and other public and private institutions.

Services Offered

- **Sanger sequencing**

De novo sequencing and resequencing.

Fluorescence-labelled DNA fragment analysis.

Microsatellite analysis (STRs, VNTRs).

Ad hoc mutation analysis (SNPs).

- **Massive sequencing**

Small genome sequencing.

Gene panels and region of interest sequencing.

Transcriptome and exome sequencing.

Detection of pathogens.

ChIP-Seq. Nonidentified protein binding region analysis.

miRNA sequencing.

- **Real-time PCR**

Development and analysis of quantitative PCR data in real time.

Assays for absolute or relative quantification of transcriptional profiles.

Allele discrimination assays (SNPs) (detection of polymorphisms at nucleotide level).

Assays to detect presence/absence of a target using an internal positive control and generation of dissociation curves.

Advice on design of experiments and on optimal primers and probes for quantitative PCR assays using "Primer Express" and "LightCycler Probe Design".

- **Other**

Quality control (integrity) of samples of DNA, RNA, and proteins.

High-precision spectrophotometric analysis in various initial samples: nucleic acids, microarrays, proteins, cell cultures, etc.

Automated extraction of nucleic acids and proteins from various biological samples

Facilities and Infrastructures

- **The Genomics Unit has the following equipment:**

Real-time quantitative PCR, AB 7500 Fast, Life Technologies (2).

Real-time quantitative PCR, LightCycler 480, Roche.

Real-time quantitative PCR, LightCycler 96, Roche.

Automatic sequencer, ABI 3130XL, Life Technologies.

System for documentation of gels and analysis of images, Chemidoc XRS, Bio Rad.

NanoDrop ONE spectrophotometer.

Concentrator Plus, Eppendorf.

2100 Bioanalyzer, Agilent.

Nucleic acid extractor, Maxwell 16.

PGM ion sequencer, Life Technologies.

S5 XL ion sequencer, Life Technologies.

NextSeq 500 sequencer, Illumina.

MiSeq sequencer, Illumina.

ePCR One Touch 2, Life Technologies.

Robot, Ion Chef, Life Technologies.

Thermal cyclers; GeneAmp PCR System 9800, Applied Biosystems; PCR system 2400, Perkin Elmer; Verity, Life Technologies (3).

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 main objectives of this unit are to provide service and support to researchers and promote scientific research and continuous technological development in the area of proteomics.

Proteomics provides a set of tools that enable the study of the molecular pathogenesis of diseases, as well as the identification of specific biomarkers that make it possible to diagnose, classify, and predict disease. It also defines new therapeutic targets and predicts the response to drugs.

Services Offered

The Proteomics Unit offers researchers different services in proteomics as well as seminars and training courses.

The Proteomics Unit offers a wide range of services for analyzing proteins, many of which require external services. In addition, most of the services require close interaction with the user to determine the best analytical strategy to use.

In all cases, priority will be given to samples sent by the research groups from the Institute and from other academic entities affiliated to the Institute. The analyses requested by external users (other research institutions and private companies) will be subject to evaluation by the Head of the Unit.

The Proteomics Unit offers support and service with the following technologies:

1. Separation of proteins and differential expression analysis.
 - a. 2D gel electrophoresis for conventional analysis of protein mixes.
 - b. 2D electrophoresis for quantitative differential analysis with "DIGE Technology".
 - c. Multiple isobaric labelling.
2. Identification of proteins both in gel and in solution.
3. Separation and analysis of protein complexes under native conditions: BLUE NATIVE. This analysis is performed both in 1D and in 2D and represents transfer of the proteins to the membrane or staining of gels for subsequent identification of proteins.
4. Theoretical and practical assistance in the specific design of different types of immunoblotting.
5. 1D differential expression analysis.



Facilities and Infrastructure

The Proteomics Unit is able to take advantage of these techniques and methodologies, thanks to the following high-tech equipment:

- **EtanTM, 2D-PAGE electrophoresis system**

The system is composed of the IPGphor™ III unit, which is integrated in the isoelectrofocusing system for the first dimension. It enables application of immobilized pH strips using the support of the IPGphor™ Manifold, which makes it possible to run 12 strips simultaneously. The IPGphor™ III unit includes a control software to generate graphs that register changes in voltage, current, and volts-hour that occur throughout the isoelectrofocusing program.

The DALTsix electrophoresis unit, where second dimension electrophoresis is performed, has a tray that makes it possible to run 6 gels simultaneously, thus reducing experimental variability in each of these gels. In addition, it has a gel cassette system that makes it possible to run 6 gels at once.

Both devices are stabilized using the MultiTemp™ III system (GE Healthcare), which provides reliable and reproducible control of temperature using circulation of liquids at a constant temperature to the external electrophoresis devices. The generous 200-W cooling capacity makes it possible to connect up to 2 vertical electrophoresis devices simultaneously for greater reproducibility of the assays.

- **Liquid phase isoelectrofocusing fractionator, 3100 OFFGEL (Agilent)**

Preparative isoelectrofocusing in liquid phase: The Offgel Agilent 3100 fractionator resolves complex mixes of proteins or peptides according to their isoelectric point (pI), thus achieving high-resolution fractionations. The resultant fractions remain in solution, thus considerably facilitating their recovery for LC/MS analysis in conventional gels. The results are highly reproducible.

- **2100 Bioanalyzer (Agilent Technologies)**

System based on microfluid capillary electrophoresis, which enables it to determine, quantify, and show the quality of total protein extracts.

- **Device for analysis and documentation of gels, ImageQuant LAS 4000 (GE Healthcare)**

Systems for automated analysis of images combining optimal capture and image analysis with ImageQuantTL software. The system uses a 3.2-megapixel CCD camera that makes it possible to acquire digital images of chemiluminescent, stained, or fluorescent membranes and gels, with an effective resolution of 6.3 megapixels.

- **Device for analysis and documentation of gels, ChemiDoc MP Imaging System (Bio Rad)**

System designed to cover multiplex fluorescence applications, chemoluminescence, and other general applications for gel documentation using a CCD camera.

- **Device for analysis and documentation of gels, Gel DocTM EZ (Bio Rad)**

Compact and automated image analysis system that combines optimal capture and analysis of images with Image Lab software. The system makes it possible to document minigels stained with fluorescent colorants or visible colorants, photographic plates, and stain-free gels (Stain-Free, Bio-Rad).

- **ImageScanner III (GE Healthcare)**

High-resolution scanner for digitalization and densitometry of gels with visible stains.

- **Nucleic acid extractor, Maxwell 16 de Promega**

Polyhistidine-tagged protein extractor that makes it possible to reduce purification time for this type of tagged protein while processing a larger number of samples.

Technical Manager: Inés García-Consuegra Galiana

CYTOMETRY UNIT

Instituto i+12 is supported by the Flow Cytometry Unit, located in the Research Center building of Hospital Universitario 12 de Octubre.

The activity of the equipment manager is summarized as follows:

- Definition of general norms for the use of the various high-technology devices, thus providing a considerable improvement in performance and better use of the equipment.
- Advice to the various developing research groups, fine tuning and analysis of new protocols for the various devices.
- Specific training for new users

Flow cytometry makes it possible to simultaneously measure multiple optical characteristics of particles and cells in a suspension. Measurement is based on the dispersion of light and emission of fluorescence from particles illuminated by a light source. Flow cytometry is a fast, sensitive, and semiquantitative method for the simultaneous characterization of various parameters of a single cell in a suspension.

Services Offered

The Flow Cytometry Unit enables researchers from Instituto i+12 to apply the following techniques and methodologies:

- Analysis of heterogeneous cell populations.
- Immunophenotyping study.
- Analysis of the cell cycle, apoptosis, and cell viability.
- Analysis of the efficacy of transfection and transduction.
- Analysis of intracellular signaling pathways

Facilities and Infrastructure

In order to carry out these techniques and methodologies, the Flow Cytometry Unit of Instituto i+12 has the following high-technology equipment:

- Analysis of intracellular signaling pathways.

Technical Manager: Gabriel Criado Carrasco

CONFOCAL MICROSCOPY UNIT

Instituto i+12 is supported by the Confocal Microscopy Unit, which is located in the Research Center building of Hospital Universitario 12 de Octubre.

The managers of the unit are responsible for the following:

- Defining the general norms for the use of the confocal microscope, thus providing a considerable improvement in performance and better application of the device.
- Arranging annual external maintenance of the device to ensure that it functions correctly and contacting the technical service when necessary.
- Advising developing research groups and fine tuning of experiments and protocols with the device.
- Specific training (initial training) for new users.

Services Offered

The Confocal Microscopy Unit enables researchers from Instituto i+12 to apply the following techniques and methodologies:

- Microscopía confocal
 1. *In vivo* physiological studies:
 1. Quantification of intracellular calcium (Fluo-3AM, Fluo-4AM, MagFluo-4).
 2. Determination of plasma membrane potential (di-4ANEPS) and mitochondrial membrane potential (TMRM, TMRE).
 3. Determination of oxidative stress (DHE, GSH, Mitosox, lipid peroxidation).
 4. FAD/Redox.
 5. Colocalization and interaction of proteins (FRET).
 2. Immunofluorescence and detection of probes (cell proliferation and apoptosis, cellular and subcellular localizations, diffusion studies).
 3. Subcellular localizations using fluorescent proteins.
 4. 3D studies (Z-Stack).
 5. Counterstaining: Complex labeling of Golgi bodies (lectin HPA, protein Grasp68), the endoplasmic reticulum (Ri-

anodine, Calnexin), mitochondria (Mitotracker Red/Green), microfilaments (phalloxin), and nuclear labeling (IP, Hoechst, DAPI...).

Facilities and Infrastructure

In order to run these techniques and methodologies, the Confocal Microscopy Unit of Instituto i+12 has the following high-technology equipment:

- Spectral confocal microscope, LSM510 META ConfoCor 3 (ZEISS).

Managers: Gema Ruiz Hurtado
Fernando Bartolomé Robledo

BIOINFORMATICS UNIT

The Bioinformatics Unit was created to respond to the growing demand for processing and analysis of data mainly from the new massive sequencing platforms (next-generation sequencing, NGS).

Its main functions are as follows:

- Provide the necessary support for the analysis of NGS results.
- Supervision of sequencer servers, the computation cluster, and the data storage system.

Similarly, the Unit aims to train and cooperate with different users in the application and development of bioinformatics tools that can prove useful in specific cases.

Services Offered

- Consultancy service for the design of sequencing experiments for devices in Instituto i+12.
- Processing, analysis, and interpretation of results, mainly from the NGS platforms of Instituto i+12.

Facilities and Infrastructure

- NGS sequencing servers. i+12-Genómica:

Dell Precision T7500: 2x Intel Xeon X5650 (6 cores), 48GB RAM, 11TB.

Dell PowerEdge T630: 2x Intel Xeon E5-2680v3 (12 cores), 128GB RAM, 28TB.

HP Z400: Intel Xeon W3550 (4 cores), 12GB RAM, 620GB.

- "Quimera" i+12-CPD H120 Cluster:

2 R423-E3 management nodes: 4x Intel Xeon E5-2650v2 (8 cores), 128GB RAM.

4 R421-E3 computer servers: 8x Intel Xeon E5-2650v2 (10 cores), 320GB RAM, 2x GPU K20m (5GB).

Storage cabinet: E2700 (130TB).

▪ Dell T7610 workstation (2x Intel Xeon E5-2630v2 (6 cores), 64GB RAM, 2.3TB). Rare, mitochondrial, and neuromuscular diseases group.

▪ Dell T7610 workstation (2x Intel Xeon E5-2630v2 (6 cores), 64GB RAM, 2.3TB). Genetics and heredity group.

▪ Dell T7600 workstation (2x Intel Xeon E5-2630 (6 cores), 64GB RAM, 2.4TB). Translational hematology group.

▪ NAS Synology: RS18017XS+ (100TB), DS1813+ (38TB), DS415Play (6TB).

Coordinator: Francisco Javier Fernández Martínez

Technical Manager: Aitor Delmiro Magdalena

ANIMAL FACILITY AND EXPERIMENTAL OPERATING ROOMS

The Animal Facility and Experimental Operating Rooms Unit is a support unit for research and teaching that aims to ensure that all studies based on animal models are carried out with the highest quality and guaranteeing animal welfare. It is aimed at researchers from Instituto i+12 and external centers.

The mission of the Unit is to support research and teaching activities associated with the use of animals for experiments that justify the objectives sought. The opportunity to carry out such research is evaluated in terms of the potential benefits.

All of the animals kept at the facility are housed in line with Spanish legislation on protection of animals used for experiments and other scientific purposes (Royal Decree 53/2013 and Law 32/2007). Housing and handling conditions reflect the recommendations of the Commission of the Council of Europe dated June 18, 2007. Since 2007, the

center has had an Animal Welfare Committee and is registered under number ES280790001164.

The functions carried out are follows:

- Housing for the maintenance and care of experimental animals, thus guaranteeing their welfare.
- Regular health checks to ensure that the animals are in good health and thus to obtain reliable and reproducible results.
- To fulfill the needs of the users by providing them with the advice and equipment necessary to carry out research with experimental animals.
- To ensure the fulfillment of all legal and ethical regulations associated with the use of animals for experiments and for other scientific purposes, including teaching.

Services Offered

Services to groups from i+12

- Advice on preparing experimental procedures.
- Evaluation of procedures by the Ethics Committee for Animal Welfare.
- Drafting of reports.
- Processing of documentation to the relevant authority.

General services

- Veterinary advice on animal welfare and on the choice of the most appropriate model, conditions for maintenance, feeding, and reproduction.
- Service for anesthesia, monitoring, and postoperative care of animals.

- Sterilization of surgical material.
- Training of staff involved in animal experimentation.
- Housing and monitoring of animals.
- Specific tasks for support and assistance with surgical procedures and models: administration of products, sampling, inoculation of cells, blood and fluid extraction, anesthesia, euthanasia, necropsy, postoperative sampling and care.

Facilities and Infrastructure

The Animal Facility and Experimental Operating Room Unit forms part of the Research Center of Hospital Universitario 12 de Octubre. It occupies the ground floor of the Teaching Building.

It currently has an overflow area to house rodents, mice (*Mus musculus*), and rats (*Rattus norvegicus*), and another to house rabbits (*Oryctolagus cuniculus*). There are also ventilated racks for immunodepressed mice and a specific area for pigs (*Sus scrofa*).

The number of rooms available makes it possible to separately house the various species used in experiments. One room is used for quarantine of new animals and another is used for special handling or observations.

The surgical area fulfills all the requirements of current legislation. It is separated from the animal house, has two-way scrub rooms, a common presurgical area, an operating room for large animals, and a microsurgery room.

Technical Manager: Montserrat Grau Sanz

Clinical Research Support Platforms

SCIENTIFIC SUPPORT UNIT

The Scientific Support Unit cooperates with researchers from Instituto i+12 by providing consultancy services and addressing issues associated with methodology, epidemiology, statistics, information technology, and teaching.

The main functions of the Scientific Support Unit are as follows:

- To provide scientific support in methodology, epidemiology, biostatistics, and information technology for activities associated with research, scientific output, and clinical practice (B.O.E. 18/05/91).
- Coordination, scientific consultancy and support for management, streamlining and improvement of research projects in national and international official public calls.
- Development of in-house research projects in health science. Development of detailed procedures and methods that facilitate research support. Development of and in-depth approaches to specific thematic areas through coordination with other centers, units, and various national and international cooperative research structures, RETICs, CIBER, Spanish Clinical Trial Platform (Plataforma Española de Ensayos Clínicos, SCREN), agencies, and other international bodies.
- Internal and external collaboration, teaching, and consultancy: Instituto de Salud Carlos III, Dirección General de Investigación, Formación e Infraestructuras Sanitarias de la Consejería de Sanidad de la Comunidad de Madrid, Ministerio de Sanidad, Servicios Sociales e Igualdad, (Consejo Asesor del Ministerio), and various universities, especially Universidad Complutense de Madrid.

Services Offered

▪ Interviews

Requests for information, advice, or a technical or scientific opinion. These comprise all queries for which

telematic, statistical, or computer applications are not necessary. They are ad hoc and are resolved in a single appointment. The researcher is advised to formulate his/her query after personal review of the subject or situation to be addressed and provide basic documentation (scientific, legal, or technical) before the interview.

▪ Consultancy

This area addresses requests for the solution to scientific processes or problems that require qualified attention, human and material resources, and time. A working calendar is created with a series of planned appointments linked by objectives, tasks, and outcomes, with a start and end date. All queries have a financial cost.

In this case, the Scientific Support Unit will assess the problem using the appropriate means depending on the objectives, hypotheses, or processes put forward by the researcher. Once the work is complete, the research will receive the results in the form of a document, together with all of the working files used in the analysis.

Delivery time for the results will depend on the complexity of the study, the availability of unit personnel, and the workload involved in the query. Consultancy services should be reserved sufficiently in advance depending on the objectives.

In specific cases, the nature of the work to be performed may necessitate costing in terms of an overall price for the project instead of a cost per hour. The project will depend on the deadline, the materials needed, the degree of involvement of the Scientific Support Unit, and the origin of the applicant. The user will not have to pay for the estimate, except in the case of large-scale projects where preparation of an estimate requires previous analyses.

Headed by: Agustín Gómez de la Cámara

BIOBANK

The i+12 Biobank regulates the management of samples on data generated during clinical practice at Hospital Universitario 12 de Octubre for their subsequent use in biomedical research. The Biobank guarantees the quality, safety, and traceability of the samples stored, as well as the procedures associated with the functioning of the unit with respect to the biological material requested. One of the main objectives of the Biobank is that of ensuring the competitiveness and excellence of national and international biomedical research, while always ensuring fulfillment of current legislation and protecting the rights of donors.

i+12 Biobank was authorized by the Consejería de Sanidad de la Comunidad de Madrid in 2013, and was registered in the Registro Nacional de Biobancos, which depends on Instituto de Salud Carlos III (ISCIII), N°. B.0000657, as stipulated in Royal Decree 1716/2011 on basic requirements for authorization and functioning of biobanks for the purpose of biomedical research and processing of human samples. In addition, i+12 Biobank is a member of the Plataforma Red Nacional de Biobancos at the request of ISCIII (PT17/0015/001).

Services Offered

▪ Services

- Hosting and custody of human samples.
- Release of human samples for biomedical research and provision of clinical data within the requirements of current legislation.
- Frozen histology and paraffin-embedded samples.
- Immunohistochemical samples.
- Nucleic acid extraction.
- Mutation studies.
- Design and updating of techniques and procedures for the collection, processing, and conservation of human biological samples.
- Ethical and legal advice on the conservation and potential use of human biological samples in research projects.

▪ Collections

- Urology collection

- Hematology collection
- Immunology collection
- Genetic collection
- Tumor bank collection
- Cardiology collection
- Psychiatry collection
- Dermatology collection
- Allergy collection
- DRECE collection
- NEDICES collection
- Healthy blood donor collection

Facilities and Infrastructure

i+12 Biobank is located in the Histopathology Department and occupies 96 m² divided into 2 areas: the reception and laboratory area and the cryopreservation area.

The flow of samples and associated data in and out is managed in the reception and laboratory area, with 2 members of staff, namely, the biobank technicians, who are equipped with 2 computers, 2 printers, a label reader, and an application for managing samples and data in order to guarantee traceability. This area is also home to the technical coordination office and the aliquoting and processing laboratory (sample processing, nucleic acid extraction, sample quality control). The processing laboratory is equipped with a -20°C refrigerator, a laminar flow hood, 2 centrifuges, a robot for extracting nucleic acids, a NanoDrop device, a bioanalyzer, a cryotome, a thermocycler, and a microscope.

The equipment for maintaining samples frozen is situated in the cryopreservation area. In all, the equipment comprises 12 ultralow temperature freezers (-80°C) equipped with CO₂ cartridges, a nitrogen container, an alarm center, and a center for monitoring and controlling temperature.

Scientific Director: José Luis Rodríguez Peralto

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, which acts as a scientific documentation service. The Library provides access to information resources (complete texts from scientific journals and electronic books, databases, scientific output), library services (loans, consultations, bibliographic searches), and reading rooms where researchers can work and study.

The Library's online platform, which is known as the Virtual Library of Hospital Universitario 12 de Octubre, provides users with the services and sources available to facilitate care work, teaching, and research. The Virtual Library is accessed via a personal code 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 Professional Development Service and Academic Committee, consultations on impact factors and quartiles of scientific publications, book loans, access to reading rooms, and access to Internet in the computer suite.

Headed by: José Manuel Estrada Lorenzo

INNOVATION SUPPORT UNIT i+12

The objective of the Innovation Support Unit (UAI i+12) is to develop activities in innovation under conditions of excellence and quality by promoting collaboration and cooperation with other centers and research groups from Instituto i+12.

UAI i+12 aims to channel innovative ideas in different phases of the innovation funnel, from conception to market launch.

The philosophy of UAI i+12 is one of working in an environment of open innovation, where both patients and suppliers and industry can participate in the innovation process, together with personnel from Instituto i+12.

UAI i+12 comprises a multidisciplinary team of professionals who give the necessary advice for turning ideas into products or services that provide new solutions.

UAI i+12 is a member of the Plataforma de Innovación en Tecnologías Médicas y Sanitarias (ITEMAS), which is promoted by Instituto de Salud Carlos III as a component of the integral vision of innovation in this setting.

The functions of UAI i+12 are organized into 3 main areas:

1. Legal protection of innovation:

- Promotion of a culture of innovation at i+12.
- Preparation of reports on the technical aspects with respect to the innovative ideas that have been identified.
- Requests and follow-up of projects, registration and maintenance of conventions (patents, utility models).
- Request, follow-up, and registration of trademarks.
- Technological surveillance in the setting of i+12.
- Definition of advice on strategies for the protection of IP.

2. Transfer and marketing:

- Identification of license holders for the portfolio of inventions at i+12.
- Attendance at BROKERAGE events.
- Advertising of technological offer of inventions from Instituto i+12, and presentation on the European platform TECHNOLOGY TRANSFER EEN and Plataforma ITEMAS.
- Drafting of licensing agreements, co-ownership of IP, technology transfer, confidentiality, and R&D&i agreements with companies.
- Publication of the activities of UAI i+12 at national and international events.
- Search for synergies with other networks and innovation alliances.

3. Training and search for funding:

- Organization of training on innovation (courses, seminars, "innovation pills").
- Organization of institutional day courses on innovation.
- Support in the presentation of proposals to calls on innovation in health care.

- Search for potential partners to participate in collaborative projects within the framework of the H2020 program.
- Identification and search for public/private funding applied to our setting.
- Search for opportunities for public procurement of innovative products and services.

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



As shown above, in 2017, Instituto i+12 was divided into 9 key Research Areas, each headed by an Area Coordinator. The individual area is formed by various research groups, each of which is led by a Group Director.

Instituto i+12 also has Associated Clinical Researchers/Groups, that is, professionals from Instituto i+12 who carry out scientific work without meeting the minimum criteria to be considered a research group.

The following table shows the number of active research projects in 2017 managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH12O) for the 9 Research Areas and Associated Clinical Researchers/Groups.

Research areas of Instituto i+12	Active projects
Cancer	65
Chronic Diseases and Transplantation	27
Rare and Genetically Based Diseases	19
Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	11
Cardiovascular	16
Inflammatory Diseases and Immune Disorders	12
Infectious Diseases and Aids	35
Neurosciences and Mental Health	23
Transversal	5
Associated Clinical Researchers/Groups	17
230	

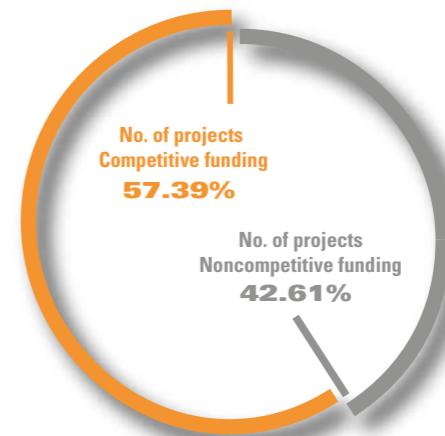
The table below shows the distribution of active projects with respect to the funding body.

Funding body	Active projects
Instituto de Salud Carlos III (ISCIII)	87
Fundación Mutua Madrileña (FMM)	21
Fundación Científica Asociación Española Contra el Cáncer	7
Fundación MAPFRE Medicina (FMAPFRE)	2
Ministerio de Economía y Competitividad (MINECO)	2
European Union	2
University of Miami	2
Fundación SENEFRO	2
Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)	1
FIPSE	1
Fundación Casa del Corazón	1
Fundación Madrileña de Nefrología	1

Funding body	Active projects
Fundación Ramón Areces	1
Fundación Renal Íñigo Álvarez de Toledo	1
Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica	1
Other (Noncompetitive)	98
230	

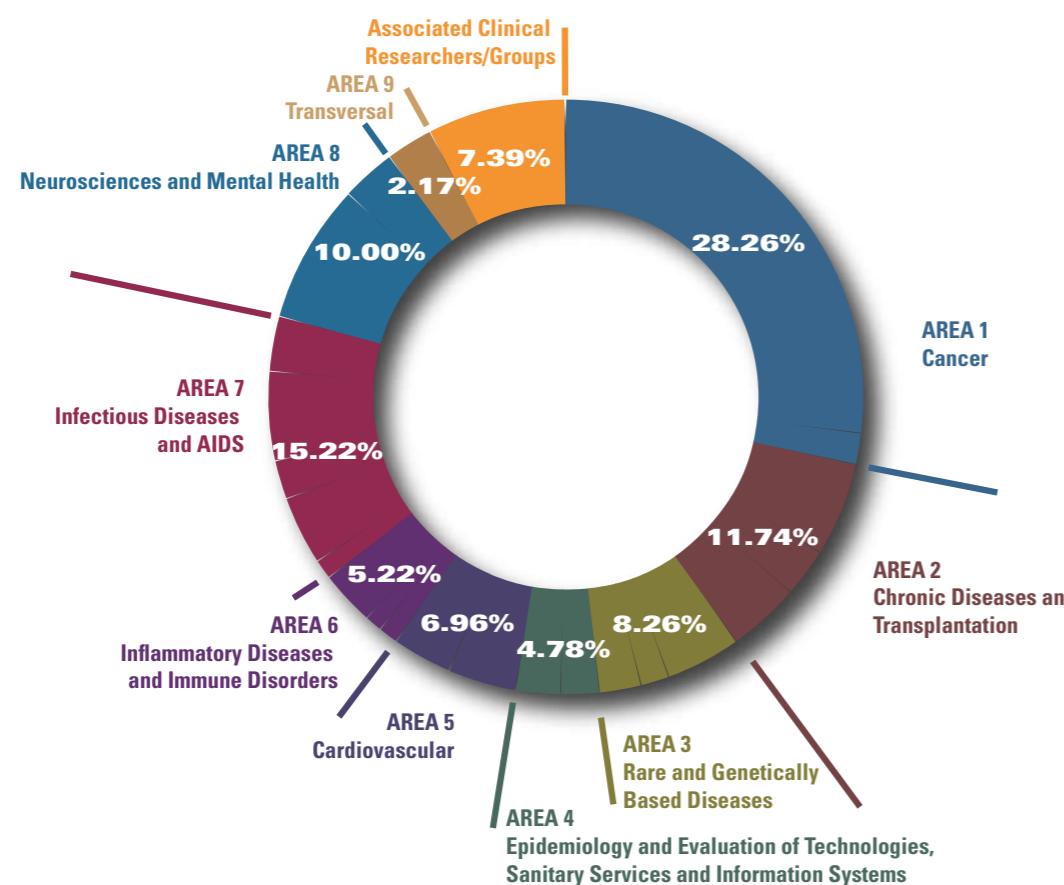
The following graph shows the distribution of projects active in 2017 according to the type of funding

Projects managed by FIBH12O



CLINICAL TRIALS

The following graph shows the distribution of projects active in 2017 by research area.



During 2017, a total of 254 clinical studies (clinical trials and observational studies) were contracted in our institution. This is a 26% increase on the number contracted in 2016. Of these 254 studies, 208 correspond to research groups from Instituto i+12 (Stable Consolidated, Consolidated, or Emerging), whereas the remaining 46 are Associated Clinical Researchers/Groups.

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

Research area	Number	Research area	Number
Area 1. Cancer		Area 6. Inflammatory Diseases and Immune Disorders	
Translational Haematology	36	Asthma and Immunoallergic Diseases	2
Neuro-Oncology	6	Inflammatory and Autoimmune Disease	15
Cutaneous Oncology	1	Immunodeficiencies and Immunology of Transplants	5
Thoracic and Clinical-Translational Oncology	40		
Genitourinary and Cellular and Molecular Oncology	15		
Breast and Gynecologic Cancer	13		
Digestive Cancer	10		
Area 2. Chronic Diseases and Transplantation		Area 7. Infectious Diseases and Aids	
Respiratory Diseases	6	Virology and HIV/AIDS	7
Bone Metabolism, Diabetes, and Nutrition	2	Infectious Pathologies	5
Clinical Nephrology	8	Translational Research Group on Pediatric Infectious Diseases	2
Male's Integral Health	2		
Critical Patient	3		
Area 3. Rare and Genetically Based Diseases		Area 8. Neurosciences and Mental Health	
Rare, Mitochondrial, and Neuromuscular Diseases	1	Cognition and Psychosis	1
Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems		Neurodegenerative Diseases	5
Maternal and Child Health	2	Translational Psychiatry	1
Area 5. Cardiovascular			
Translational Multidisciplinary Cardiovascular Research	10		
Heart Failure – Pulmonary Hypertension	8		
Translational Research in Hypertension and Cardiorenal Disease	1		
Perinatal Medicine	1		
Total	208		
Other researchers	46		
TOTAL	254		

PARTICIPATION IN

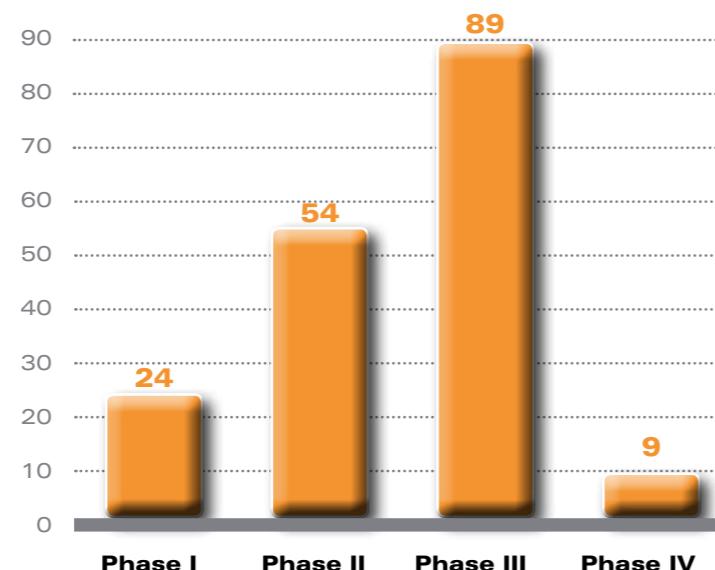
COLLABORATIVE NETWORKS

Collaborative Research Networks (RETICS)

Clinical studies and trials contracted by research groups from Instituto i+12 are distributed according to the type of research as follows:

TRIALS/STUDIES	NUMBER
CLINICAL TRIALS WITH DRUGS	PHASE I 24
	PHASE II 54
	PHASE III 89
	PHASE IV 9
CLINICAL TRIALS WITH HEALTH CARE PRODUCTS	4
EXTENSION/OTHER	3
TOTAL	183
OBSERVATIONAL STUDIES	71
TOTAL	254

The following graph shows the distribution of clinical trials with medications contracted during 2017



In 2017, a total of 13 research groups from Instituto i+12 participated in Collaborative Research Networks.

Network	Participating groups
Red de Asma, Reacciones Adversas y Alergia	Asthma and Immunoallergic Diseases - M ^a del Carmen Diéguez Pastor - Principal Investigator: RD16/0006/0010 .
ARADYAL	
Red de Enfermedades Vasculares Cerebrales	Neurovascular Research - Jaime Díaz Guzmán - Principal Investigator: RD16/0019/0022 . Tissue Engineering - Antonio Martínez Salio, team member.
INVICTUS PLUS	
Red de Investigación en Inflamación y Enfermedades Reumáticas	Inflammatory and Autoimmune Diseases - José Luis Pablos Álvarez - Principal Investigator and Coordinator: RD16/0012/0001 .
RIER	
Red de Investigación Renal	Clinical Nephrology - Manuel Praga Terente - Principal Investigator: RD16/0009/0012 .
RedinRen	



Network	Participating groups
Red de Investigación en Salud Materno Infantil y del Desarrollo	Maternal and Child Health - Carmen Rosa Pallás Alonso - Principal Investigator: RD16/0022/0011 . Perinatal Medicine - Alberto Galindo Izquierdo, team member.
Red de Trastornos Adictivos	Addictions and Comorbidity - Gabriel Rubio Valladolid - Principal Investigator: RD16/0017/0017 . Cognition and Psychosis - Francisco Arias Horcajadas, team member.
Red Española de Investigación en Patología Infecciosa	Infectious Pathologies - José M ^a Aguado García - Principal Investigator: RD16/0016/0002 . Molecular Epidemiology of Hospital and Emerging Infections - Fernando Chaves Sánchez, team member.
Red de SIDA	Virology and HIV/AIDS - Rafael Rubio García - Principal Investigator: RD16/0025/0024 . Translational Research in Pediatric Infectious Diseases - Pablo Rojo Conejo, team member.

Participating groups

SAMID

RTA

REIPI

RIS

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 2017.

Platform	Participating groups
Plataforma de Biobancos	Cutaneous Oncology - José Luis Rodríguez Peralto - Principal Investigator: PT13/0010/0054 .
Plataforma de Innovación en Tecnologías Médicas y Sanitarias	Neurodegenerative Diseases - Eva M ^a Carro Díaz - Principal Investigator: PT13/0006/0005 . 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, Health Technologies and Information and Communication Techniques - Agustín Gómez de la Cámara - Principal Investigator: PT13/0002/0012 .

Participating groups

BIOBANKS

ITEMAS

CLINICAL TRIALS

Networked Biomedical Research Groups (CIBER)

Eleven groups from the Instituto de Investigación Hospital 12 de Octubre (i+12) participated in CIBER during 2017.

CIBER

Participating groups

CIBER de Epidemiología y Salud Pública

Clinical Epidemiology, Health Technologies and Information and Communication Techniques - Agustín Gómez de la Cámara: Lead Researcher of project **CB06/02/0077**.

CIBERESP

CIBER de Enfermedades Neurodegenerativas

Neurodegenerative Diseases - Eva M^a Carro Díaz: Lead Researcher of project **CB06/05/0022**.

CIBERNED

CIBER de Enfermedades Respiratorias

Respiratory Diseases - Carlos José Álvarez Martínez: Lead Researcher of project **CB06/06/0041**.

CIBERES

CIBER de Enfermedades Raras

Rare, Mitochondrial, and Neuromuscular Diseases - Miguel Ángel Martín Casanueva: Lead Researcher of project **CB06/07/0016** and coordinator of the Mitochondrial Diseases Area.
Translational Energetic Metabolism - José Manuel Cueva Marcos: Lead Researcher of project **CB06/07/0017**.
Pathophysiology of Mitochondrial Biogenesis - Rafael Garesse Alarcón: Lead Researcher of project **CB06/07/0013**.

CIBERER

CIBER

Participating groups

CIBER de Salud Mental

Translational Psychiatry:
Juan Carlos Leza Cerro - Lead Researcher of project **CB07/09/0026**.
Addiction and Comorbidity - Gabriel Rubio Valladolid, participates in project CB07/09/0007.

CIBERSAM

CIBER de Bioingeniería, Biomateriales y Nanomedicina

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

CIBER-BBN

CIBER de Enfermedades Cardiovasculares

Heart Failure – Pulmonary Hypertension - Juan Francisco Delgado Jiménez: Lead Researcher of project **CB16/11/0052**.

CIBERCV

CIBER de Cáncer

Thoracic and Clinical-Translational Oncology - Luis Gonzaga Paz-Ares Rodríguez: Lead Researcher of project **CB16/12/0442**.

CIBERONC



Other Networks and Collectives

R&D activity programs between research groups from the Autonomous Community of Madrid in biomedicine, cofunded with operational programs from the European Social Fund and European Regional Development Fund, 2014-2020:



MULTIMAT-CHALLENGE

B2013/MIT-2862 - "Materiales Multifuncionales para los Retos de la Sociedad".

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

IMMUNOTHERCAN-CM

B2017/BMD-3733 - Inmunidad Tumoral e Inmunoterapia del Cáncer.

- José Antonio López Martín - Thoracic and Clinical-Translational Oncology Group.

AGES-CM 2-CM

B2017/BMD-3740 - Ambiente y Genes en Esquizofrenia.

- Roberto Rodríguez Jiménez - Cognition and Psychosis Group.
- Juan Carlos Leza Cerro - Translational Psychiatry Group.

GENOBIA-CM

B2017/BMD-3773 - Diseño, mediante Inteligencia Artificial, de Algoritmos Predictivos para la Identificación de Individuos en Riesgo de Desarrollar Sobrepeso/Obesidad y sus Patologías Asociadas: Aportación del Análisis Genético.

- Miguel León Sanz - Bone Metabolism, Diabetes, and Nutrition Group.

NEUROMETAB-CM

B2017/BMD-3700 - Bases Metabólicas de la Neurodegeneración.

- Eva M^a Carro Díaz - Neurodegenerative Diseases Group.

RAREGENOMICS-CM

B2017/BMD-3721 Red de Recursos Genómicos, Funcionales, Clínicos y Terapéuticos para el Estudio de las Enfermedades Raras Neurológicas.

- Miguel Ángel Martín Casanueva - Rare, Mitochondrial, and Neuromuscular Diseases Group.
- Rafael Garesse Alarcón - Pathophysiology of Mitochondrial Biogenesis Group.

ELA-MADRID-CM

B2017/BMD-3813 - Diseño y Desarrollo de Fármacos Innovadores para el Tratamiento de la Esclerosis Lateral Amiotrófica.

- Alberto García Redondo - ALS Research Group.

COMPLEMENTO II-CM

B2017/BMD-3673 - El Sistema del Complemento en Salud y Enfermedad.

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

NANODENDMED II-CM

B2017/BMD-3703 - Nanosistemas Dendríticos como Agentes y Vectores Terapéuticos en Distintas Aplicaciones Biomédicas (II).

- Pablo Luis Ortiz Romero - Cutaneous Oncology Group.

NIETO-CM

B2017/BMD-3731 - Nanoterapia Dirigida a Inmunidad Entrenada para la Aceptación de Trasplante de Órganos.

- Estela Paz Artal - Immunodeficiencies and Immunology of Transplants.

ITACA-CM

B2017/BMD-3738 - Investigación Traslacional en Arritmias Cardiacas Hereditarias.

- Fernando Arribas Ynsaurriaga - Translational Multidisciplinary Cardiovascular Research Group.

MULTI-TARGET & VIEW-CM

B2017/BMD-3688 - Imagen Multimodal de la Respuesta Terapéutica a Estrategias Multidiana en Enfermedades Neurológicas.

- Ignacio Lizasoain Hernández - Neurovascular Research Group.

ILUNG-CM

B2017/BMD-3884 - Terapias Personalizadas y Nanotecnología en Cáncer de Pulmón.

- Luis Gonzaga Paz-Ares Rodríguez - Thoracic and Clinical-Translational Oncology Group.

SCIENTIFIC ACTIVITY:

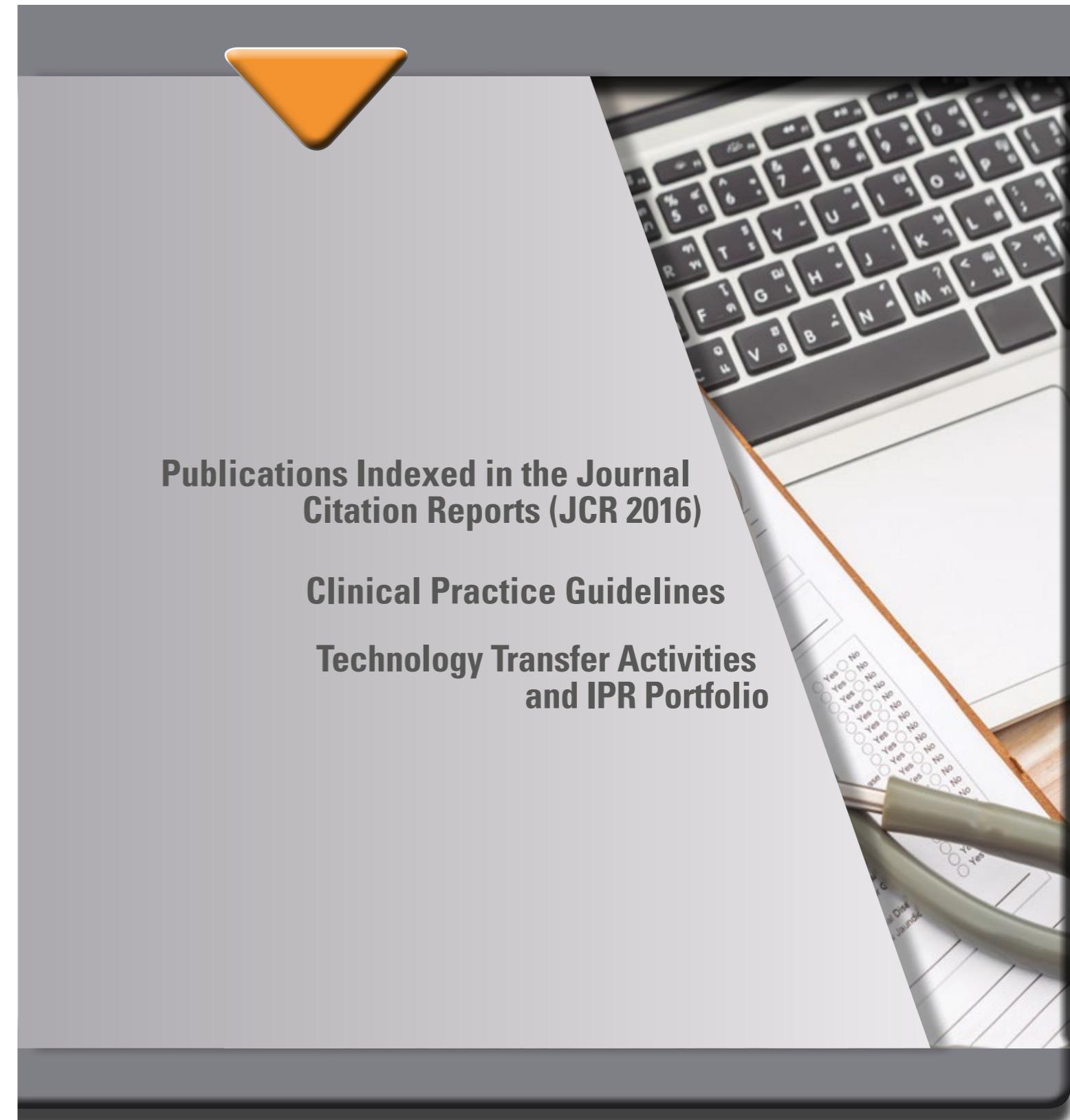
RESULTS



**Publications Indexed in the Journal
Citation Reports (JCR 2016)**

Clinical Practice Guidelines

**Technology Transfer Activities
and IPR Portfolio**



PUBLICATIONS INDEXED IN THE JOURNAL CITATION REPORTS (JCR 2016)

The Annual Scientific Report 2017 was drafted after analyzing journals indexed in the ISI Web of Knowledge for both science and social science. The JCR 2016 impact factor was applied.

As is our usual practice, 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 number of publications. We have also calculated the total number of publications and the global impact factor taking into account the number of letters published.

Analysis

The analysis of the scientific output of Instituto i+12 is very important when evaluating scientific activity, since it enables us to see the evolution and quality of research by members of the Institute's members over the years and to measure how we have advanced.

The total scientific output of Instituto i+12 has increased in recent years. The total number of indexed publications by consolidated and emerging groups and by associated clinical researchers at Instituto i+12 during 2017 was 827 (original articles, reviews, and editorials), with an overall impact factor (IF) of 4,655.827 points, that is, a considerable increase with respect to the scientific production generated in 2016. This indicates a consolidation of the growing trend in scientific production observed in recent years.

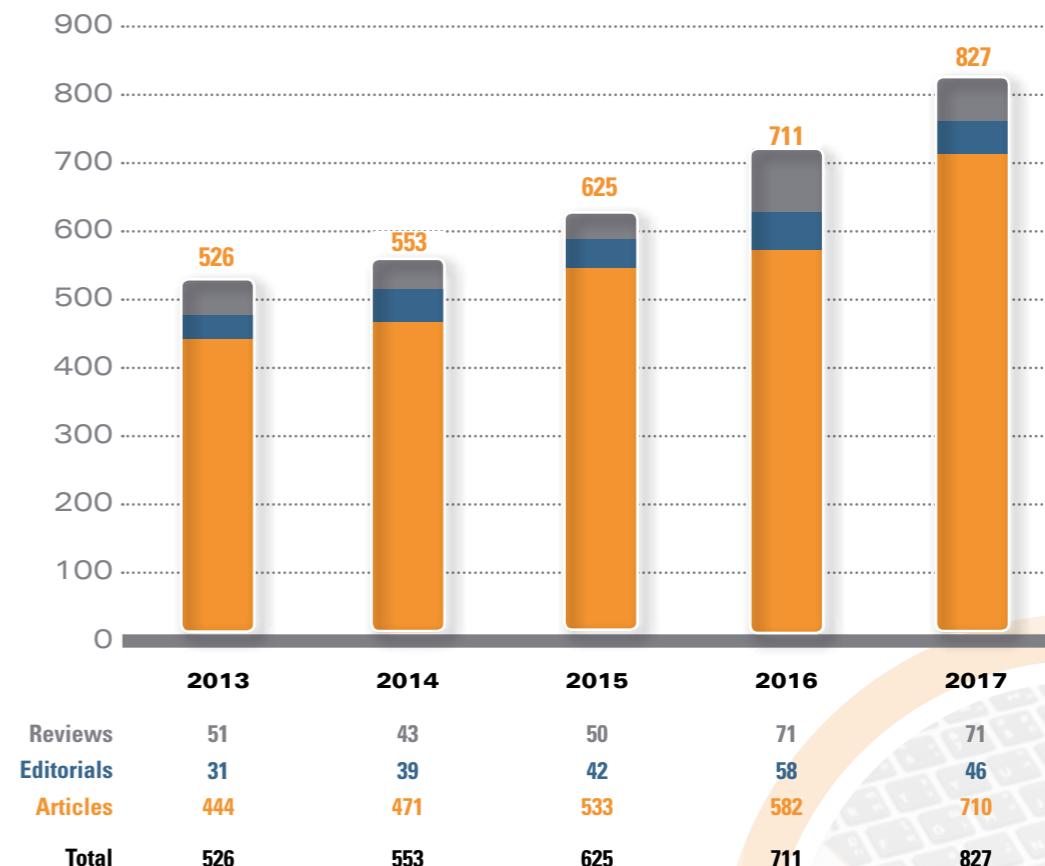
The following table shows the scientific output generated in 2017 by professionals from Instituto i+12 distributed by decile and quartile with the cumulative impact factor (CIF).

2017	Publications	Publications in indexed journals (JCR 2016)	Σ IF (JCR 2016)	D1	Σ IF D1 (JCR 2016)	Q1	Σ IF Q1 (JCR 2016)
Articles	794	710	4,043.783	153	2,244.944	381	3,272.031
Reviews	80	71	355.672	17	185.770	34	270.672
Editorials	56	46	256.372	10	173.445	18	208.297
Total	930	827	4,655.827	180	2,604.159	433	3,751.000
Letters	91	81	292.364	10	123.929	32	218.903
Total	1.021	908	4,948.191	190	2,728.088	465	3,969.903

	2017	Q2	Σ IF Q2 (JCR 2016)	Q3	Σ IF Q3 (JCR 2016)	Q4	Σ IF Q4 (JCR 2016)
Articles	158	495.459	99	194.911	72	81.382	
Reviews	17	47.994	14	30.892	6	6.114	
Editorials	7	20.256	15	20.654	6	7.165	
Total	182	563.709	128	246.457	84	94.661	
Letters	5	15.559	22	31.076	22	26.826	
Total	187	579.268	150	277.533	106	121.487	

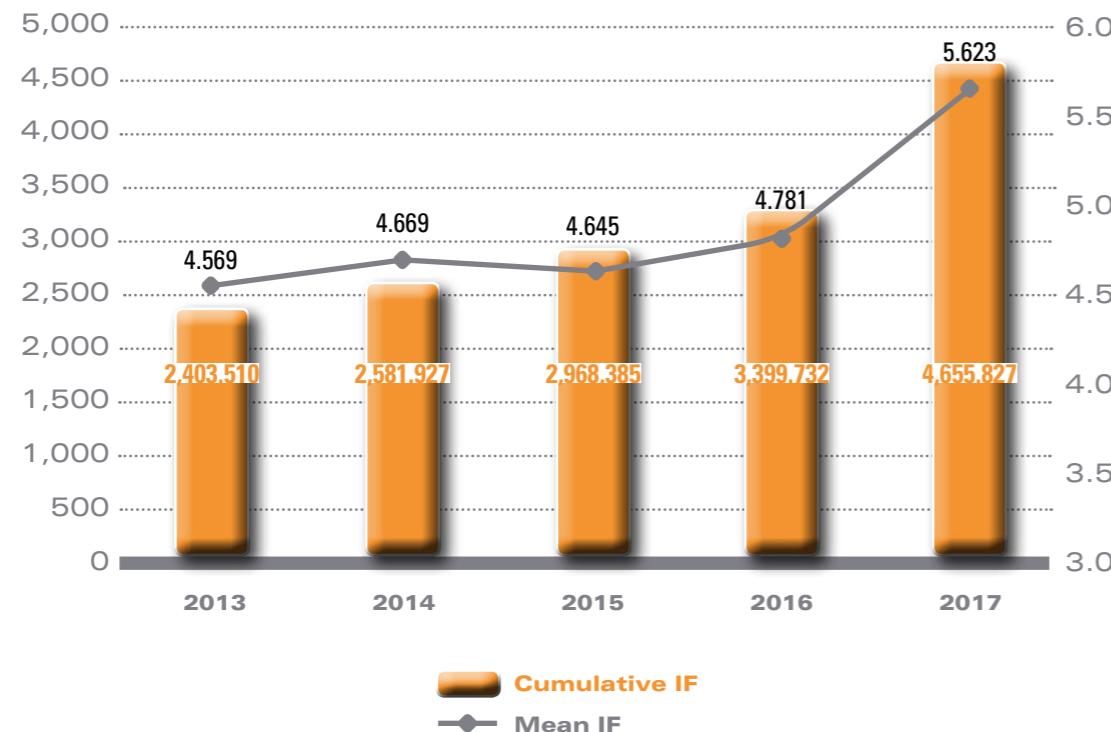
The graph below shows a comparison of the overall scientific output of Instituto i+12 for 2013-2017.

Annual Distribution of the No. of Publications (2013-2017)





**Annual Distribution of CIF and MIF
(2013-2017)**



Similarly, the scientific output of the consolidated and emerging groups of Instituto i+12 has increased over the last 5 years, in terms of both original articles and reviews and editorial material, reaching 722 publications in 2017, with a cumulative impact factor of 4,266.974 points and a mean impact factor (MIF) of 5.728.

The impact factor was calculated based on the 2016 *Journal Citation Reports (JCR)*, and, as stated above, only original articles, proceedings papers, reviews, and editorial material were taken into account.

Of all the publications generated by consolidated and emerging groups from Instituto i+12, 53.60% were published in first-quartile journals (Q1). Of these, 42.89% were from first-decile journals (D1).

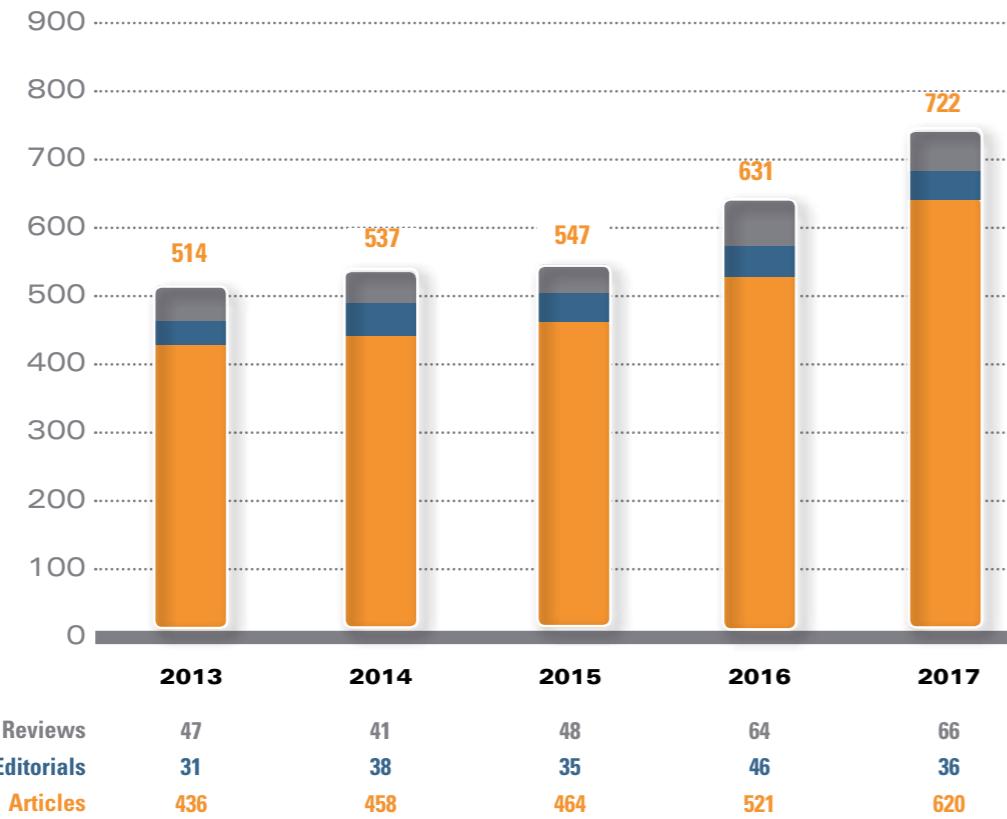
	2017	Publications	Publications in indexed journals (JCR 2016)	Σ IF (JCR 2016)	D1	Σ IF D1 (JCR 2016)	Q1	Σ IF Q1 (JCR 2016)																	
									Articles	Reviews	Editorials	Total	Letters	Total	2017	02	Σ IF Q2 (JCR 2016)	Q3	Σ IF Q3 (JCR 2016)	Q4	Σ IF Q4 (JCR 2016)				
Articles	678	620	3,690.800	140	2,110.864	337	3,009.923		71	66	339.410	16	180.976	33	265.878										
Reviews	71	66	339.410	16	180.976	33	265.878		41	36	236.764	10	173.445	17	203.962										
Editorials	41	36	236.764	10	173.445	17	203.962																		
Total	790	722	4,266.974	166	2,465.285	387	3,479.763																		
Letters	72	67	252.890	9	119.223	25	188.886																		
Total	862	789	4,519.864	175	2,584.508	412	3,668.649																		
2017	02	Σ IF Q2 (JCR 2016)	Q3	Σ IF Q3 (JCR 2016)	Q4	Σ IF Q4 (JCR 2016)																			
Articles	141	446.128	86	172.114	56	62.635																			
Reviews	13	36.526	14	30.892	6	6.114																			
Editorials	6	16.497	10	12.762	3	3.543																			
Total	160	499.151	110	215.768	65	72.292																			
Letters	5	15.559	19	26.768	18	21.677																			
Total	165	514.710	129	242.536	83	93.969																			

The following table shows a comparison of the scientific output generated by consolidated and emerging groups from i+12 during the last 5 years.

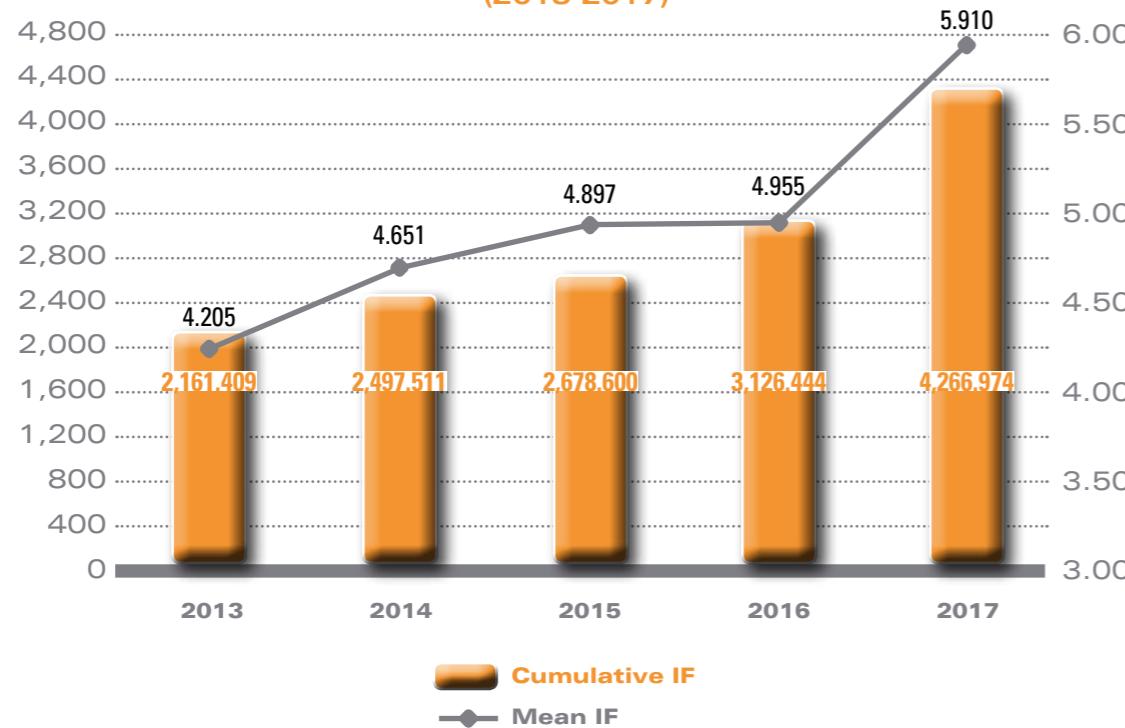
Publications	No. 2013	Σ IF (JCR 2012)	No. 2014	Σ IF (JCR 2013)	No. 2015	Σ IF (JCR 2014)	No. 2016	Σ IF (JCR 2015)	No. 2017	Σ IF (JCR 2016)
Articles	436	1,934.995	458	2,193.108	464	2,321.536	521	2,565.137	620	3,690.800
Reviews	47	169.911	41	178.334	48	194.622	64	267.796	66	339.410
Editorials	31	56.503	38	126.069	35	162.442	46	293.511	36	236.764
Total	514	2,161,409	537	2,497,511	547	2,678,600	631	3,126,444	722	4,266,974
2013			2014		2015		2016		2017	
Mean IF		4.21		4.65		4.90		4.95		5.91



**Annual Distribution of the No. of Publications
(2013-2017)**



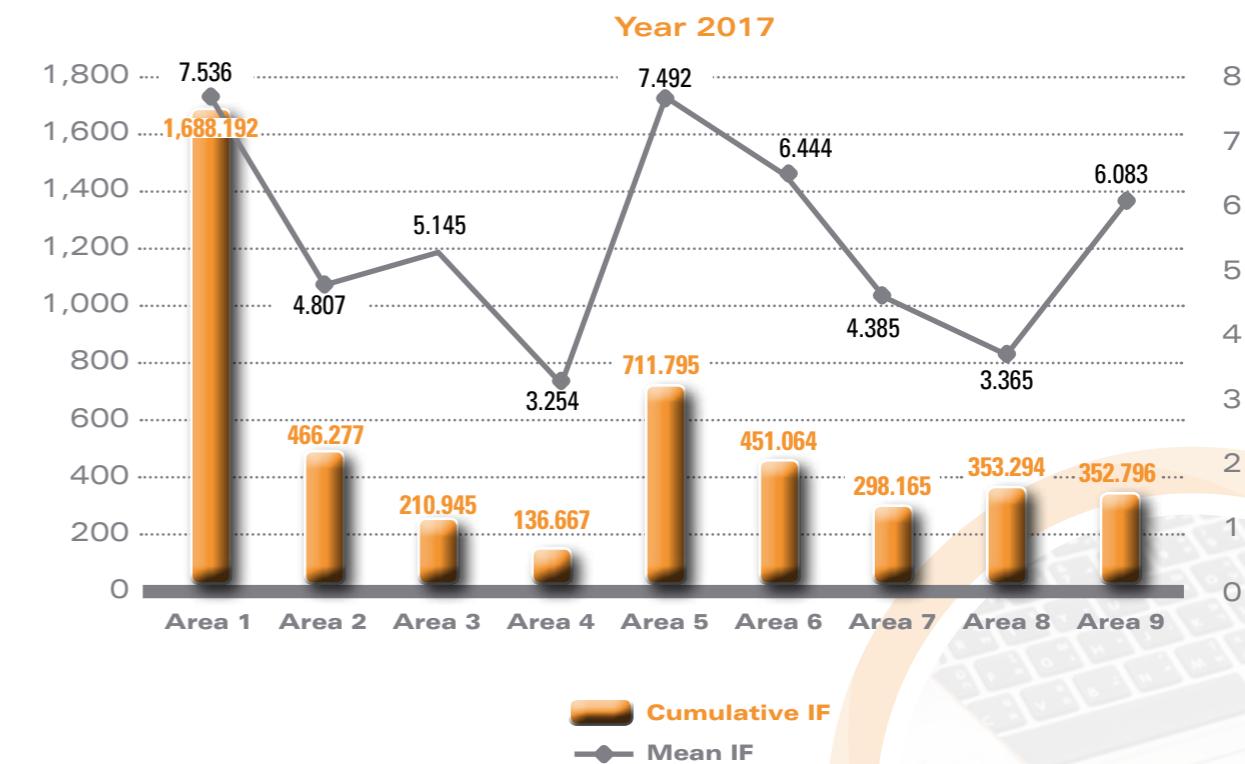
**Annual Distribution of CIF and MIF
(2013-2017)**



The following table summarizes the distribution of the total number of publications (articles, reviews, and editorial material) and the impact factor for the 9 research areas* of Instituto i+12.

Research area	No. of publications 2017	Σ IF (JCR 2016)	Mean IF (JCR 2016)
Area 1. Cancer	224	1,688.192	7.536
Area 2. Chronic Diseases and Transplantation	97	466.277	4.807
Area 3. Rare and Genetically Based Diseases	41	210.945	5.145
Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	42	136.667	3.254
Area 5. Cardiovascular	95	711.795	7.492
Area 6. Inflammatory Diseases and Immune Disorders	70	451.064	6.444
Area 7. Infectious Diseases and AIDS	68	298.165	4.385
Area 8. Neurosciences and Mental Health	105	353.294	3.365
Area 9. Transversal	58	352.796	6.083

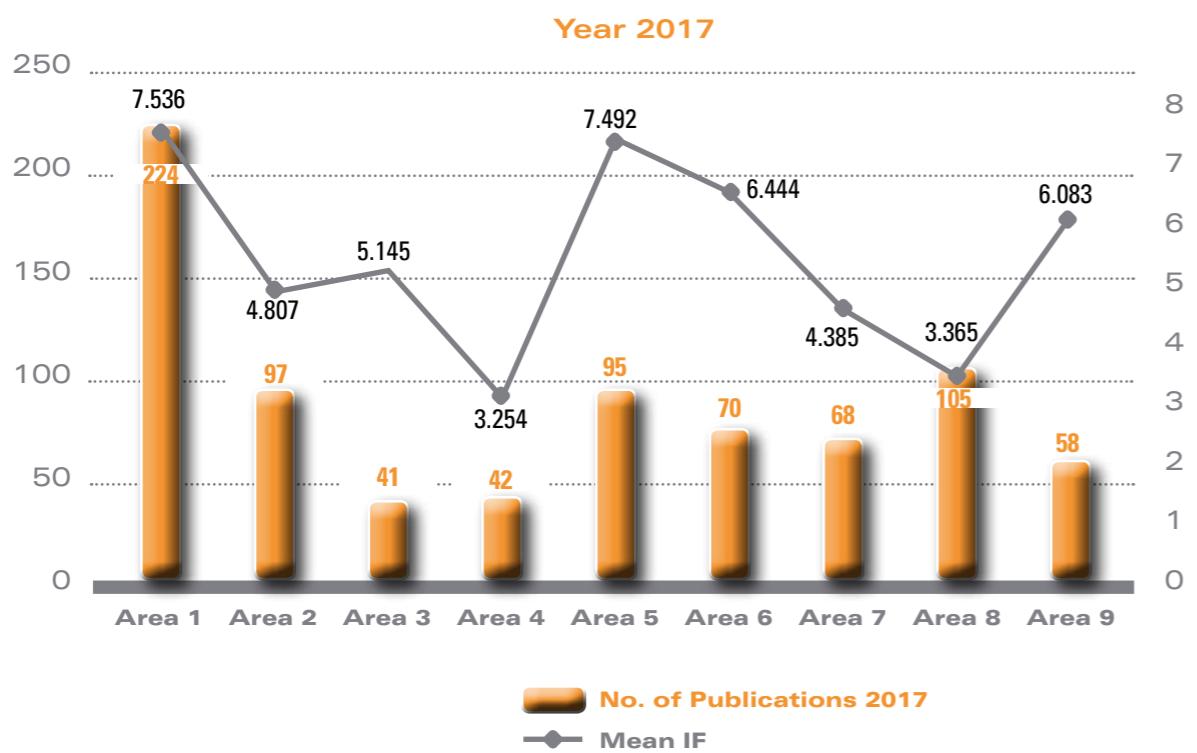
Graph showing the cumulative IF and mean IF for the 9 research areas of Instituto i+12



* The publications in which several research areas participate were taken into consideration in each area.



Graph showing the total number of publications and mean IF of the 9 research areas of Instituto i+12.



The following table shows the total number of publications and cumulative impact factor by research group*.

Research group	Publications	CIF
Thoracic and Clinical-Translational Oncology	38	516.001
Genitourinary and Cellular and Molecular Oncology	41	386.498
Translational Multidisciplinary Cardiovascular Research	32	292.400
Translational Research in Hypertension and Cardiorenal Disease	31	254.394
Inflammatory and Autoimmune Diseases	30	240.309
Translational Haematology	33	208.211
Research on Physical Activity and Health	26	194.225
Cutaneous Oncology	28	191.558
Digestive Cancer	32	149.518
Infectious Pathologies	30	132.249
Clinical Nephrology	17	112.966
Research on Intelligent Biomaterials	23	111.415
Breast and Gynecologic Cancer	19	103.335

* Publications in which several research areas have participated are taken into consideration in each of them.

Research group	Publications	CIF
Male's Integral Health	13	102.920
Immunodeficiencies and Immunology of Transplants	18	101.221
Virology and HIV/AIDS	20	97.529
Lymphocyte Immunobiology	17	95.590
Neurodegenerative Diseases	24	91.581
Heart Failure – Pulmonary Hypertension	19	89.819
Cognition and Psychosis	28	84.352
Clinical Epidemiology, Health Technologies and Information and Communication Techniques	15	78.180
Rare, Mitochondrial, and Neuromuscular Diseases	19	77.728
Respiratory Diseases	19	72.997
Neuro-Oncology	21	69.277
Addictions and Comorbidity	23	68.880
Translational Psychiatry	17	62.281
Maternal and Child Health	28	61.379
Ageing, Neuroimmunology, and Nutrition	14	61.151
Mitochondrial Membranes Laboratory	9	59.560
Molecular Epidemiology of Hospital and Emerging Infections	18	55.835
Translational Biophysics	9	51.826
Tissue Engineering	8	44.297
Medical Chemistry Laboratory	7	39.918
Translational Research on Pediatric Infectious Diseases	10	39.268
Research in Cardiovascular Imaging	5	33.108
Translational Energetic Metabolism	7	32.060
Pulmonary Surfactant and Respiratory Diseases	8	28.138
Neurotraumatology and Subarachnoid Haemorrhage	13	26.726
Research on Als	4	26.467
Critical Patient	9	25.216
Neurovascular Research	5	25.093
Kidney Transplant	6	23.813
Pathophysiology of Mitochondrial Biogenesis	4	22.152
Abdominal Organ Transplant	8	19.301
Homeostasis and the Tissue Physiopathology of the Stem Cells	5	18.881
Bone Metabolism, Diabetes, and Nutrition	4	17.042



Research group	Publications	CIF
Asthma and Immunoallergic Diseases	4	12.818
Regulation of Cellular Homeostasis	3	12.736
Perinatal Medicine	4	12.410
Regenerative Medicine	2	10.173
Porphyrias, Haemochromatosis, and Anemia	2	8.616
Genetics and Inheritance	2	6.988
Translational Research in Malaria	1	5.476
Translational Research in Leishmaniasis	1	4.519
Research on Cardiovascular Risk	2	4.277
Research in Complex Patients and Health System	1	2.369
Research in Health Services and Results	1	1.969
Molecular and Cellular Bases in Rheumatic Diseases	1	1.125

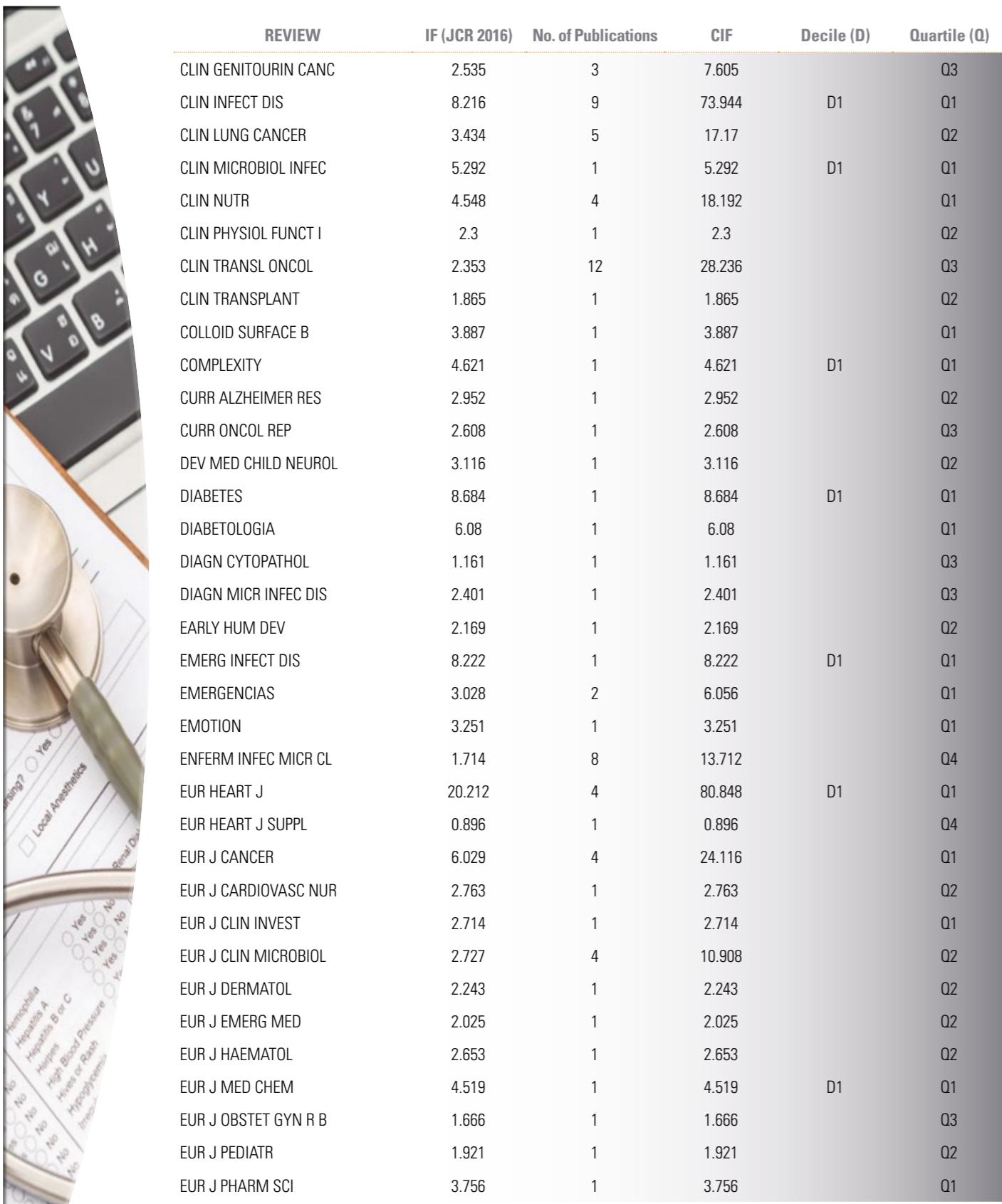
The following table lists the journals in which publications were generated and the total number of publications in 2017.

REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
ACS APPL MATER INTER	7.504	1	7.504	D1	Q1
ACS CHEM NEUROSCI	3.883	1	3.883		Q2
ACTA BIOMATER	6.319	4	25.276	D1	Q1
ACTA NEUROCHIR	1.881	1	1.881		Q3
ACTA NEUROL SCAND	3.087	2	6.174		Q2
ACTA PAEDIATR	2.043	1	2.043		Q2
ACTA PSYCHIAT SCAND	6.79	1	6.79	D1	Q1
ACTAS ESP PSIQUIATRI	1.339	2	2.678		Q4
ACTAS UROL ESP	1.181	3	3.543		Q4
ADDICT BIOL	4.603	4	18.412		Q1
ADICCIONES	2.077	2	4.154		Q4
ADV CLIN CHEM	4.722	1	4.722	D1	Q1
ADV COLLOID INTERFAC	7.223	4	28.892		Q1
ADV THER	2.709	1	2.709		Q2
AGING MENT HEALTH	2.658	1	2.658		Q2
AGING-US	4.867	1	4.867		Q2
AIDS	5.019	1	5.019		Q1
ALCOHOL CLIN EXP RES	2.716	1	2.716		Q2
ALLERGOL IMMUNOPATH	1.439	1	1.439		Q4
ALZHEIMERS DEMENT	9.478	1	9.478	D1	Q1
AM HEART J	4.436	1	4.436		Q2
AM J CARDIOL	3.398	2	6.796		Q2
AM J DERMATOPATH	1.095	5	5.475		Q4
AM J HEMATOL	5.275	1	5.275		Q1
AM J HYPERTENS	3.541	1	3.541		Q2
AM J PHYS MED REHAB	1.734	1	1.734		Q2
AM J PHYSIOL RENAL PHYSIOL	3.611	1	3.611		Q1
AM J TRANSPLANT	6.165	1	6.165	D1	Q1
AN BRAS DERMATOL	0.978	1	0.978		Q4
AN PEDIATR	1.14	10	11.4		Q3
ANAEROBE	2.278	1	2.278		Q3
ANN ALLERG ASTHMA IM	3.728	1	3.728		Q2
ANN ANAT	1.864	1	1.864		Q1
ANN BIOMED ENG	3.221	1	3.221		Q1



REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
ANN EPIDEMIOL	2.582	1	2.582		Q2
ANN HEMATOL	3.083	2	6.166		Q2
ANN INDIAN ACAD NEUR	0.95	1	0.95		Q4
ANN INTERN MED	17.202	1	17.202	D1	Q1
ANN NEUROL	9.89	1	9.89	D1	Q1
ANN ONCOL	11.855	9	106.695	D1	Q1
ANN RHEUM DIS	12.811	6	76.866	D1	Q1
ANTIMICROB AGENTS CH	4.302	3	12.906		Q1
ARCH BRONCONEUMOL	2.979	7	20.853		Q2
ARCH CLIN NEUROPSYCH	2.044	1	2.044		Q3
ARCH DIS CHILD-FETAL	4.099	1	4.099	D1	Q1
ARCH ESP UROL	0.323	1	0.323		Q4
ARCH GERONTOL GERIAT	2.086	1	2.086		Q3
ARTHRIT CARE RES	3.319	2	6.638		Q2
ARTHRITIS RES THER	4.121	1	4.121		Q1
ARTHRITIS RHEUMATOL	6.918	1	6.918	D1	Q1
ASIAN J ANDROL	2.996	2	5.992	D1	Q1
ATEN PRIM	1.042	2	2.084		Q3
AUST FAM PHYSICIAN	0.852	1	0.852		Q3
BBA-BIOENERGETICS	4.932	1	4.932		Q1
BBA-BIOMEMBRANES	3.498	2	6.996		Q2
BBA-MOL BASIS DIS	5.476	1	5.476		Q1
BIODRUGS	2.835	1	2.835		Q3
BIOL BLOOD MARROW TR	4.704	2	9.408		Q1
BIOMATER SCI-UK	4.21	1	4.21		Q1
BIOMED RES INT	2.476	1	2.476		Q2
BIOPHYS J	3.656	2	7.312		Q1
BLOOD	13.164	3	39.492	D1	Q1
BMC CANCER	3.288	1	3.288		Q2
BMC GENOMICS	3.729	2	7.458		Q1
BMC INFECT DIS	2.768	1	2.768		Q2
BMC MED INFORM DECIS	1.643	1	1.643		Q3
BMC PSYCHIATRY	2.613	1	2.613		Q2
BMC PULM MED	2.435	1	2.435		Q3

REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
BMJ OPEN	2.369	2	4.738		Q1
BONE JOINT J	2.948	1	2.948		Q1
BRAIN BEHAV IMMUN	5.964	1	5.964		Q1
BREAST CANCER RES TR	3.626	1	3.626		Q2
BRIT J CANCER	6.176	2	12.352		Q1
BRIT J HAEMATOL	5.67	3	17.01		Q1
BRIT J SPORT MED	6.557	1	6.557	D1	Q1
CANCER CELL	27.407	1	27.407	D1	Q1
CANCER CHEMOTH PHARM	2.737	2	5.474		Q3
CANCER IMMUNOL RES	8.284	1	8.284	D1	Q1
CANCER LETT	6.375	1	6.375		Q1
CANCER MED-US	3.362	1	3.362		Q2
CANCER RES	9.122	1	9.122	D1	Q1
CANCER TREAT REV	8.589	2	17.178	D1	Q1
CARDIOVASC THER	2.478	1	2.478		Q2
CELL ADHES MIGR	3.872	1	3.872		Q2
CELL DEATH DIS	5.965	1	5.965		Q1
CELL MOL LIFE SCI	5.788	1	5.788		Q1
CELL REP	8.282	1	8.282		Q1
CEREB CORTEX	6.559	2	13.118	D1	Q1
CHEM SCI	8.668	1	8.668	D1	Q1
CHEM-EUR J	5.317	3	15.951		Q1
CHEMNANOMAT	2.937	1	2.937		Q2
CHEST	6.147	1	6.147		Q1
CIR ESPAN	1.276	3	3.828		Q3
CIRC-CARDIOVASC QUAL	4.524	1	4.524		Q1
CIRCULATION	19.309	2	38.618	D1	Q1
CLEV CLIN J MED	1.38	1	1.38		Q2
CLIN CANCER RES	9.619	3	28.857	D1	Q1
CLIN CHEM LAB MED	3.432	1	3.432		Q1
CLIN COLORECTAL CANC	4.507	1	4.507		Q2
CLIN EPIGENETICS	4.987	2	9.974		Q1
CLIN EXP IMMUNOL	3.41	1	3.41		Q2
CLIN EXP RHEUMATOL	2.634	4	10.536		Q3
CLIN GENET	3.326	1	3.326		Q2



REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
CLIN GENITOURIN CANC	2.535	3	7.605		Q3
CLIN INFECT DIS	8.216	9	73.944	D1	Q1
CLIN LUNG CANCER	3.434	5	17.17		Q2
CLIN MICROBIOL INFEC	5.292	1	5.292	D1	Q1
CLIN NUTR	4.548	4	18.192		Q1
CLIN PHYSIOL FUNCT I	2.3	1	2.3		Q2
CLIN TRANSL ONCOL	2.353	12	28.236		Q3
CLIN TRANSPLANT	1.865	1	1.865		Q2
COLLOID SURFACE B	3.887	1	3.887		Q1
COMPLEXITY	4.621	1	4.621	D1	Q1
CURR ALZHEIMER RES	2.952	1	2.952		Q2
CURR ONCOL REP	2.608	1	2.608		Q3
DEV MED CHILD NEUROL	3.116	1	3.116		Q2
DIABETES	8.684	1	8.684	D1	Q1
DIABETOLOGIA	6.08	1	6.08		Q1
DIAGN CYTOPATHOL	1.161	1	1.161		Q3
DIAGN MICR INFEC DIS	2.401	1	2.401		Q3
EARLY HUM DEV	2.169	1	2.169		Q2
EMERG INFECT DIS	8.222	1	8.222	D1	Q1
EMERGENCIAS	3.028	2	6.056		Q1
EMOTION	3.251	1	3.251		Q1
ENFERM INFEC MICR CL	1.714	8	13.712		Q4
EUR HEART J	20.212	4	80.848	D1	Q1
EUR HEART J SUPPL	0.896	1	0.896		Q4
EUR J CANCER	6.029	4	24.116		Q1
EUR J CARDIOVASC NUR	2.763	1	2.763		Q2
EUR J CLIN INVEST	2.714	1	2.714		Q1
EUR J CLIN MICROBIOL	2.727	4	10.908		Q2
EUR J DERMATOL	2.243	1	2.243		Q2
EUR J EMERG MED	2.025	1	2.025		Q2
EUR J HAEMATOL	2.653	1	2.653		Q2
EUR J MED CHEM	4.519	1	4.519	D1	Q1
EUR J OBSTET GYN R B	1.666	1	1.666		Q3
EUR J PEDIATR	1.921	1	1.921		Q2
EUR J PHARM SCI	3.756	1	3.756		Q1

REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
EUR J PHYS REHAB MED	1.827	1	1.827		Q2
EUR J PREV CARDIOL	3.606	3	10.818		Q2
EUR J TRAUMA EMERG S	0.895	1	0.895		Q3
EUR NEUROPSYCHOPHARM	4.239	1	4.239		Q1
EUR RESPIR J	10.569	3	31.707	D1	Q1
EUR UROL	16.265	2	32.53	D1	Q1
EXP MOL MED	5.063	1	5.063		Q1
EXP MOL PATHOL	2.423	2	4.846		Q2
EXP PHYSIOL	2.912	1	2.912		Q2
EXPERT OPIN DRUG DEL	5.657	2	11.314	D1	Q1
EXPERT OPIN INV DRUG	4.03	1	4.03		Q1
EXPERT OPIN PHARMACO	3.894	1	3.894		Q1
EXPERT REV ANTICANC	2.212	1	2.212		Q3
EXPERT REV RESP MED	2.432	1	2.432		Q3
EXPERT SYST APPL	3.928	1	3.928		Q1
FETAL DIAGN THER	2.699	1	2.699		Q2
FOOD CONTROL	3.496	1	3.496	D1	Q1
FRONT IMMUNOL	6.429	4	25.716		Q1
FRONT MICROBIOL	4.076	2	8.152		Q1
FRONT MOL NEUROSCI	5.076	1	5.076		Q1
FRONT NEUROINFORM	3.87	1	3.87	D1	Q1
FRONT NEUROL	3.552	1	3.552		Q2
FRONT NEUROSCI-SWITZ	3.566	1	3.566		Q2
FRONT PHYSIOL	4.134	3	12.402		Q1
FRONT PSYCHIATRY	3.532	2	7.064		Q2
GAC SANIT	1.768	2	3.536		Q3
GASTRIC CANCER	5.454	1	5.454		Q1
GASTROENT HEPAT-BARC	0.917	2	1.834		Q4
GENE CHROMOSOME CANC	3.696	1	3.696		Q2
GENES-BASEL	3.6	2	7.2		Q2
GEOSPATIAL HEALTH	1.812	1	1.812		Q3
GIORN ITAL DERMAT V	1.311	1	1.311		Q3
GUT	16.658	2	33.316	D1	Q1
HAEMATOLOGICA	7.702	1	7.702	D1	Q1
HEART	6.059	2	12.118		Q1



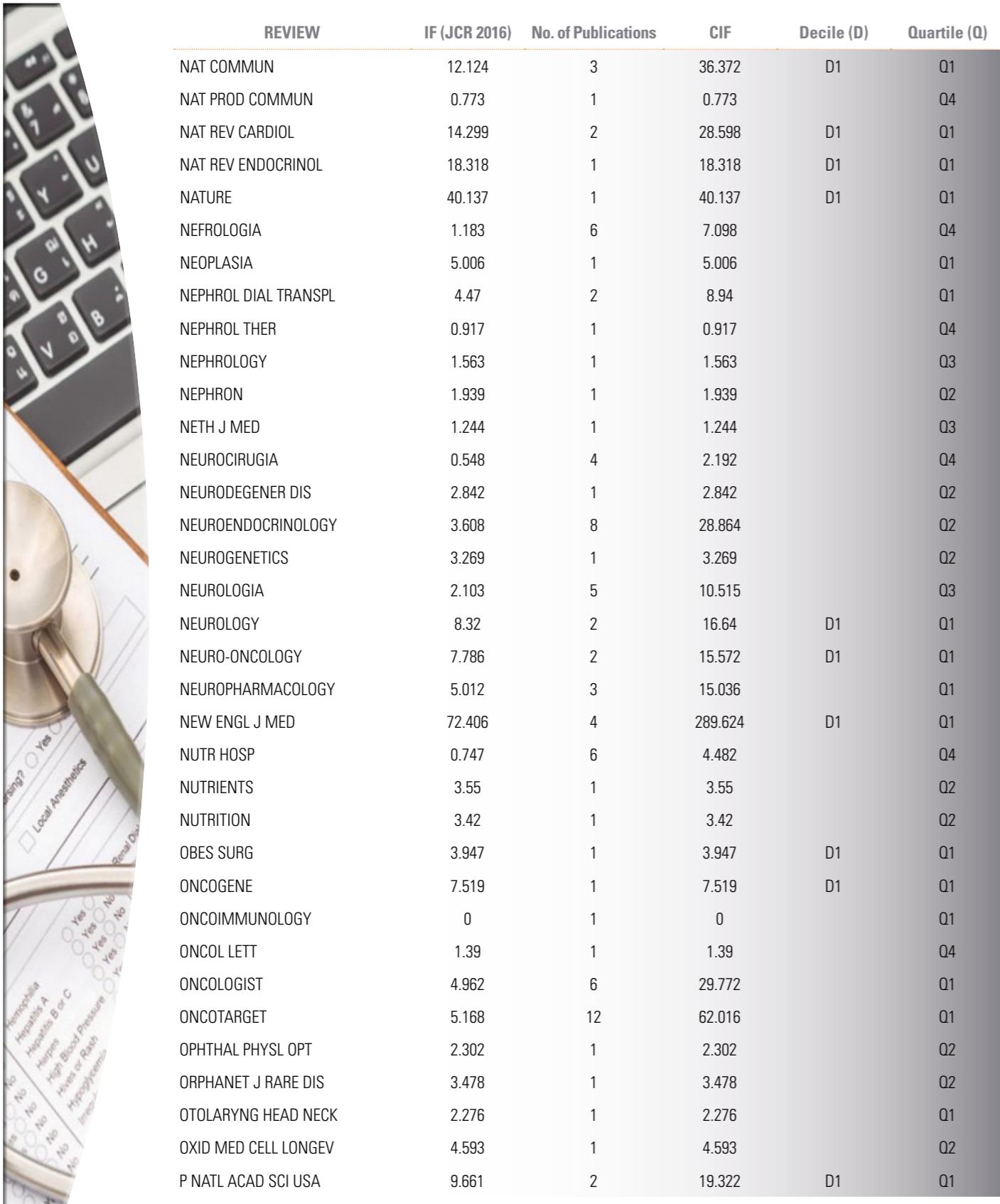
REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
HEART LUNG CIRC	2.028	1	2.028		Q3
HEART VESSELS	3.434	1	3.434		Q2
HELL J CARDIOL	1.343	1	1.343		Q4
HEMATOL ONCOL	3.118	1	3.118		Q2
HEPATOL INT	2.164	1	2.164		Q3
HEPATOLOGY	13.246	1	13.246	D1	Q1
HIV MED	3.257	1	3.257		Q2
HUM GENET	4.637	1	4.637		Q1
HUM MOL GENET	5.34	1	5.34		Q1
HUM PATHOL	3.014	2	6.028		Q1
HYPERTENS RES	3.581	1	3.581		Q1
HYPERTENSION	6.857	3	20.571	D1	Q1
IEEE T BIO-MED ENG	3.577	1	3.577		Q1
IMMUN AGEING	2.216	1	2.216		Q3
INFECTION	2.468	1	2.468		Q3
INFORM RETRIEVAL J	0.791	1	0.791		Q4
INT ARCH ALLERGY IMM	2.72	1	2.72		Q3
INT J ANTIMICROB AG	4.307	1	4.307		Q1
INT J CANCER	6.513	1	6.513		Q1
INT J CARDIOL	6.189	8	49.512		Q1
INT J DERMATOL	1.56	4	6.24		Q3
INT J GERIATR PSYCH	3.018	1	3.018		Q2
INT J GYNECOL CANCER	2.369	1	2.369		Q2
INT J MED MICROBIOL	3.391	1	3.391		Q2
INT J MOL SCI	3.226	2	6.452		Q2
INT OPHTHALMOL	1.077	1	1.077		Q4
INT PSYCHOGERIATR	2.423	1	2.423		Q3
INTENS CARE MED	12.015	2	24.03	D1	Q1
INVEST NEW DRUG	3.484	1	3.484		Q2
ISR MED ASSOC J	1.036	1	1.036		Q3
J AFFECT DISORDERS	3.432	1	3.432		Q2
J ALLERGY CLIN IMMUN	13.081	3	39.243	D1	Q1
J ALZHEIMERS DIS	3.731	1	3.731		Q2
J AM CHEM SOC	13.858	2	27.716	D1	Q1
J AM COLL CARDIOL	19.896	9	179.064	D1	Q1

REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
J AM GERIATR SOC	4.388	1	4.388		Q1
J AM HEART ASSOC	4.425	1	4.425		Q2
J AM MED DIR ASSOC	5.775	1	5.775	D1	Q1
J AM SOC NEPHROL	8.966	1	8.966	D1	Q1
J ANTIBIOT	2.237	1	2.237		Q2
J ANTIMICROB CHEMOTH	5.071	3	15.213		Q1
J BIOL CHEM	4.125	2	8.25		Q2
J CELL PHYSIOL	4.08	2	8.16		Q2
J CHEM EDUC	1.419	1	1.419		Q3
J CLIN EXP NEUROPSYC	1.839	1	1.839		Q3
J CLIN MICROBIOL	3.712	3	11.136		Q2
J CLIN NEUROSCI	1.557	1	1.557		Q3
J CLIN ONCOL	24.008	8	192.064	D1	Q1
J CLIN PSYCHIAT	5.291	1	5.291		Q1
J CLIN VIROL	3.051	3	9.153		Q2
J COGN PSYCHOL	1.503	1	1.503		Q3
J COMP PHYSIOL A	2.429	1	2.429		Q2
J CUTAN PATHOL	1.317	1	1.317		Q3
J EMPIR RES HUM RES	1.352	1	1.352		Q2
J EUR ACAD DERMATOL	3.528	2	7.056		Q1
J EXP MED	11.991	1	11.991	D1	Q1
J GEN VIROL	2.838	1	2.838		Q2
J GYNECOL ONCOL	3.14	1	3.14		Q1
J HEART LUNG TRANSPL	7.114	3	21.342	D1	Q1
J HEPATOL	12.486	2	24.972	D1	Q1
J HUM GENET	2.471	1	2.471		Q3
J HUM LACT	2.007	1	2.007	D1	Q1
J HYPERTENS	4.085	8	32.68		Q1
J IMMUNOL	4.856	2	9.712		Q1
J IMMUNOL RES	3.276	2	6.552		Q2
J INFECTION	4.201	1	4.201		Q1
J INHERIT METAB DIS	3.97	1	3.97		Q2
J INTERF CYTOK RES	2.377	1	2.377		Q3
J INVEST ALLERG CLIN	3.094	1	3.094		Q3
J INVEST DERMATOL	6.287	1	6.287	D1	Q1



REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
J LOW GENIT TRACT DI	1.205	1	1.205		Q4
J MATER CHEM B	4.543	2	9.086		Q1
J MATER SCI	2.599	1	2.599		Q2
J MATERN-FETAL NEO M	1.826	3	5.478		Q3
J MED CHEM	6.259	1	6.259	D1	Q1
J MOL CELL CARDIOL	5.68	1	5.68		Q1
J MOL DIAGN	4.526	2	9.052		Q1
J MOL GRAPH MODEL	1.754	1	1.754		Q3
J NEUROINFLAMM	5.102	1	5.102		Q1
J NEUROL	3.389	1	3.389		Q2
J NEUROSCI	5.988	1	5.988		Q1
J NEUROSURG	4.059	1	4.059		Q1
J NON-CRYST SOLIDS	2.124	1	2.124		Q1
J NUTR BIOCHEM	4.518	1	4.518		Q1
J OBSTET GYNAECOL	0.629	1	0.629		Q4
J PAEDIATR CHILD H	1.572	1	1.572		Q3
J PATHOL	6.894	1	6.894	D1	Q1
J PEDIATR-US	3.874	2	7.748	D1	Q1
J PHYS CHEM C	4.536	1	4.536		Q1
J PHYSIOL-LONDON	4.739	1	4.739		Q1
J PSYCHOPHARMACOL	4.179	1	4.179		Q1
J RHEUMATOL	3.15	1	3.15		Q2
J SEX MED	2.978	1	2.978		Q2
J SPORT MED PHYS FIT	1.215	1	1.215		Q3
J STRENGTH COND RES	2.06	1	2.06		Q2
J THORAC ONCOL	6.595	1	6.595		Q1
J TRANSL MED	3.786	1	3.786		Q1
JACC-CARDIOVASC INTE	8.841	1	8.841	D1	Q1
JAMA DERMATOL	5.817	4	23.268	D1	Q1
JAMA INTERN MED	16.538	1	16.538	D1	Q1
JAMA ONCOL	16.559	1	16.559	D1	Q1
JAMA-J AM MED ASSOC	44.405	1	44.405	D1	Q1
JNCI-J NATL CANCER I	12.589	2	25.178	D1	Q1
KARDIOL POL	1.341	1	1.341		Q4
KIDNEY INT	8.395	2	16.79	D1	Q1

REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
LANCET	47.831	7	334.817	D1	Q1
LANCET INFECT DIS	19.864	1	19.864	D1	Q1
LANCET ONCOL	33.9	2	67.8	D1	Q1
LANCET RESP MED	19.287	1	19.287	D1	Q1
LANGMUIR	3.833	2	7.666		Q2
LARYNGOSCOPE	2.471	1	2.471		Q3
LEUKEMIA	11.702	5	58.51	D1	Q1
LEUKEMIA LYMPHOMA	2.755	2	5.51		Q2
LEUKEMIA RES	2.501	1	2.501		Q3
LIVER TRANSPLANT	3.91	2	7.82		Q1
LUNG CANCER	4.294	4	17.176		Q2
LUPUS	2.454	1	2.454		Q3
MALARIA J	2.715	1	2.715		Q2
MECH AGEING DEV	3.087	1	3.087		Q3
MED CLIN-BARCELONA	1.125	14	15.75		Q3
MED INTENSIVA	1.231	7	8.617		Q4
MED MYCOL	2.377	1	2.377		Q3
MED ONCOL	2.634	1	2.634		Q3
MED SCI SPORT EXER	4.141	2	8.282	D1	Q1
MEDCHEMCOMM	2.608	1	2.608		Q3
MEDICINE	1.804	3	5.412		Q2
MELANOMA RES	2.615	1	2.615		Q1
MOL CANCER	6.204	1	6.204		Q1
MOL CANCER RES	4.974	1	4.974		Q2
MOL CANCER THER	5.764	1	5.764		Q1
MOL CELL BIOL	4.398	1	4.398		Q1
MOL CELL ENDOCRINOL	3.754	1	3.754		Q2
MOL GENET METAB	3.769	1	3.769		Q2
MOL IMMUNOL	3.236	1	3.236		Q2
MOL NEUROBIOL	6.19	2	12.38	D1	Q1
MOLECULES	2.861	1	2.861		Q2
MULT SCLER J	4.84	1	4.84		Q1
MULT SCLER RELAT DIS	2.349	1	2.349		Q3
MUSCLE NERVE	2.605	2	5.21		Q2
NANOSCALE	7.367	2	14.734		Q1



REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
NAT COMMUN	12.124	3	36.372	D1	Q1
NAT PROD COMMUN	0.773	1	0.773		Q4
NAT REV CARDIOL	14.299	2	28.598	D1	Q1
NAT REV ENDOCRINOL	18.318	1	18.318	D1	Q1
NATURE	40.137	1	40.137	D1	Q1
NEFROLOGIA	1.183	6	7.098		Q4
NEOPLASIA	5.006	1	5.006		Q1
NEPHROL DIAL TRANSPL	4.47	2	8.94		Q1
NEPHROL THER	0.917	1	0.917		Q4
NEPHROLOGY	1.563	1	1.563		Q3
NEPHRON	1.939	1	1.939		Q2
NETH J MED	1.244	1	1.244		Q3
NEUROCIRUGIA	0.548	4	2.192		Q4
NEURODEGENER DIS	2.842	1	2.842		Q2
NEUROENDOCRINOLOGY	3.608	8	28.864		Q2
NEUROGENETICS	3.269	1	3.269		Q2
NEUROLOGIA	2.103	5	10.515		Q3
NEUROLOGY	8.32	2	16.64	D1	Q1
NEURO-ONCOLOGY	7.786	2	15.572	D1	Q1
NEUROPHARMACOLOGY	5.012	3	15.036		Q1
NEW ENGL J MED	72.406	4	289.624	D1	Q1
NUTR HOSP	0.747	6	4.482		Q4
NUTRIENTS	3.55	1	3.55		Q2
NUTRITION	3.42	1	3.42		Q2
OBES SURG	3.947	1	3.947	D1	Q1
ONCOGENE	7.519	1	7.519	D1	Q1
ONCOIMMUNOLOGY	0	1	0		Q1
ONCOL LETT	1.39	1	1.39		Q4
ONCOLOGIST	4.962	6	29.772		Q1
ONCOTARGET	5.168	12	62.016		Q1
OPHTHAL PHYSL OPT	2.302	1	2.302		Q2
ORPHANET J RARE DIS	3.478	1	3.478		Q2
OTOLARYNG HEAD NECK	2.276	1	2.276		Q1
OXID MED CELL LONGEV	4.593	1	4.593		Q2
P NATL ACAD SCI USA	9.661	2	19.322	D1	Q1

REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
PARKINSONISM RELAT D	4.484	1	4.484		Q1
PEDIATR BLOOD CANCER	2.513	1	2.513		Q3
PEDIATR DERMATOL	0.99	1	0.99		Q4
PEDIATR DEVEL PATHOL	1.089	2	2.178		Q4
PEDIATR INFECT DIS J	2.486	4	9.944		Q3
PEDIATR NEPHROL	2.516	1	2.516		Q1
PEDIATR NEUROL	2.018	1	2.018		Q3
PEDIATRICS	5.705	1	5.705	D1	Q1
PHARMACOGENET GENOM	2.184	1	2.184		Q2
PHARMACOGENOMICS	2.35	1	2.35		Q3
PHARMACOGENOMICS J	3.815	1	3.815		Q2
PHARMACOL RES	4.48	1	4.48		Q1
PIGM CELL MELANOMA R	5.17	1	5.17		Q1
PLAST RECONSTR SURG	3.843	1	3.843		Q1
PLOS ONE	2.806	16	44.896		Q1
POSTGRAD MED	2.062	1	2.062		Q2
PROG NEURO-PSYCHOPH	4.187	1	4.187		Q1
PROSTAG LEUKOTR ESS	2.653	1	2.653		Q3
PSICOTHEMA	1.344	1	1.344		Q2
PSYCHIAT QUART	1.449	1	1.449		Q3
PSYCHIAT RES	2.528	1	2.528		Q2
PSYCHOL TRAUMA-US	1.584	1	1.584		Q3
PSYCHOSOM MED	3.863	1	3.863		Q1
REDOX BIOL	6.337	2	12.674		Q1
RES SPORTS MED	1.806	1	1.806		Q2
RESP CARE	1.733	2	3.466		Q4
REV BRAS FARMACOGN	1.059	1	1.059		Q4
REV CLIN ESP	0.971	2	1.942		Q3
REV ESP CARDIOL	4.485	16	71.76		Q1
REV ESP ENFERM DIG	1.401	1	1.401		Q4
REV ESP QUIM	0.75	1	0.75		Q4
REV NEUROLOGIA	0.743	4	2.972		Q4
REV PORT CARDIOL	1.195	2	2.39		Q4
REV PSIQUIATR SALUD	2.227	2	4.454		Q3
RHEUMATOL INT	1.824	2	3.648		Q3



REVIEW	IF (JCR 2016)	No. of Publications	CIF	Decile (D)	Quartile (Q)
RIV PSICHIATR	0.642	1	0.642		Q4
RNA	4.605	1	4.605		Q1
RSC ADV	3.108	1	3.108		Q2
SALUD MENT	0.351	1	0.351		Q4
SCHIZOPHR RES	3.986	3	11.958		Q1
SCI REP-UK	4.259	20	85.18		Q1
SCI TRANSL MED	16.761	1	16.761	D1	Q1
SEMIN ARTHRITIS RHEU	4.498	3	13.494		Q1
SPAN J PSYCHOL	0.502	1	0.502		Q4
STEM CELL RES	3.963	2	7.926		Q1
STRAHLENTHER ONKOL	2.735	1	2.735		Q3
STROKE	6.032	2	12.064	D1	Q1
THER ADV MED ONCOL	6.294	1	6.294		Q1
THORAX	8.272	1	8.272	D1	Q1
TRANSL CANCER RES	1.167	1	1.167		Q4
TRANSPL INFECT DIS	1.719	4	6.876		Q4
TRANSPL INT	3.079	1	3.079		Q1
TRANSPLANTATION	3.678	2	7.356		Q2
TRIALS	1.969	1	1.969		Q3
ULTRASTRUCT PATHOL	0.694	2	1.388		Q4
UROL INT	1.611	1	1.611		Q3
UROL ONCOL-SEMIN ORI	3.668	1	3.668		Q2
UROLOGY	2.309	2	4.618		Q2
VACCINE	3.235	2	6.47		Q2
VET MICROBIOL	2.628	1	2.628		Q2
VISION RES	1.971	1	1.971		Q3
WORLD J BIOL PSYCHIA	3.658	1	3.658		Q2
WORLD J GASTROENTERO	3.365	1	3.365		Q2
WORLD NEUROSURG	2.592	4	10.368		Q2

No. of Journals = 412

5.728 (MIF)

789

4,519.86

CLINICAL PRACTICE GUIDELINES

During 2017, research carried out in Instituto i+12 led to the publication of **19 clinical practice guidelines**:

- Mearin F, Ciriza C, Mínguez M, Rey E, Mascort JJ, Peña E, Cañones P, Júdez J; en nombre de la SEPD, la semFYC, la SEMERGEN y la SEMG, Sociedad Española de Patología Digestiva (SEPD), Sociedad Española de Medicina de Familia y Comunitaria (semFYC), Sociedad Española de Médicos de Atención Primaria (SEMERGEN), Sociedad Española de Médicos Generales y de Familia (SEMG). Clinical practice guidelines: Irritable bowel syndrome with constipation and functional constipation in adults: Concept, diagnosis, and healthcare continuity. (Part 1 of 2) Atencion Primaria. 2017;49:42-55. IF: 1.042.
- Hidalgo M, Alvarez R, Gallego J, Guillen-Ponce C, Laquente B, Macarulla T, Munoz A, Salgado M, Vera R, Adeva J, Ales I, Arevalo S, Blazquez J, Calsina A, Carmona A, de Madaria E, Diaz R, Diez L, Fernandez T, de Paredes BG, Gallardo ME, Gonzalez I, Hernando O, Jimenez P, Lopez A, Lopez C, Lopez-Rios F, Martin E, Martinez J, Martinez A, Montans J, Pazo R, Plaza JC, Peiro I, Reina JJ, Sanjuanbenito A, Yaya R, Carrato A. Consensus guidelines for diagnosis, treatment and follow-up of patients with pancreatic cancer in Spain. Clinical & Translational Oncology. 2017;19:667-81. IF: 2.353.
- Rivero A, Pérez-Molina JA, Blasco AJ, Arribas JR, Crespo M, Domingo P, Estrada V, Iribarren JA, Knobel H, Lázaro P, López-Aldeguer J, Lozano F, Moreno S, Palacios R, Pineda JA, Pulido F, Rubio R, de la Torre J, Tuset M, Gatell JM. Costs and cost-efficacy analysis of the 2016 GESIDA/ Spanish AIDS; National Plan recommended guidelines for initial antiretroviral therapy in HIV-infected adults. Enfermedades Infecciosas y Microbiología Clínica. 2017; 35:88-99. IF: 1.714.
- Gómez-Veiga F, Rodríguez-Antolín A, Miñana B, Hernández C, Suárez JF, Fernández-Gómez JM, Unda M, Burgos J, Alcaraz A, Rodríguez P, Medina R, Castiñeiras J, Moreno C, Pedrosa E, Cózar JM; GESCAP. Diagnosis and treatment for clinically localized prostate cancer. Adherence to the European Association of Urology clinical guidelines in a nationwide population-based study - GESCAP group. Actas Urológicas Españolas. 2017;41:359-67. IF: 1.181.
- Reintam Blaser A, Starkopf J, Alhazzani W, Berger MM, Casaer MP, Deane AM, Fruhwald S, Hiesmayr M, Ichai C, Jakob SM, Loudet CI, Malbrain ML, Montejo González JC, Paugam-Burtz C, Poeze M, Preiser JC, Singer P, van Zanten AR, De Waele J, Wendon J, Werner J, Whitehouse T, Wilmer A, Oudemans-van Straaten HM; ESICM Working Group on Gastrointestinal Function. Early enteral nutrition in critically ill patients: ESICM clinical practice guidelines. Intensive Care Medicine. 2017;43:380-98. IF: 12.015.
- Oberg K, Couvelard A, Delle Fave G, Gross D, Grossman A, Jensen RT, Pape UF, Perren A, Rindi G, Ruszniewski P, Scoazec JY, Welin S, Wiedemann B, Ferone D; Antibes Consensus Conference participants (García-Carbonero, Rocío). ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Biochemical Markers. Neuroendocrinology. 2017;105:201-11. IF: 3.608.
- Perren A, Couvelard A, Scoazec JY, Costa F, Borbath I, Delle Fave G, Gorbounova V, Gross D, Grossma A, Jense RT, Kulke M, Oeberg K, Rindi G, Sorbye H, Welin S; Antibes Consensus Conference participants (García-Carbonero, Rocío). ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Pathology-Diagnosis and Prognostic Stratification. Neuroendocrinology. 2017; 105:196-200. IF: 3.608.
- Sundin A, Arnold R, Baudin E, Cwikla JB, Eriksson B, Fanti S, Fazio N, Giammarile F, Hicks RJ, Kjaer A, Krenning E, Kwekkeboom D, Lombard-Bohas C, O'Connor JM, O'Toole D, Rockall A, Wiedemann B, Valle JW, Vullierme MP; Antibes Consensus Conference participants (García-Carbonero, Rocío). ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Radiological, Nuclear Medicine and Hybrid Imaging. Neuroendocrinology. 2017;105:212-44. IF: 3.608.



- Partelli S, Bartsch DK, Capdevila J, Chen J, Knigge U, Niederle B, Nieven van Dijkum EJM, Pape UF, Pascher A, Ramage J, Reed N, Ruszniewski P, Scoazec JY, Toumpanakis C, Kianmanesh R, Falconi M; Antibes Consensus Conference participants (García-Carbonero, Rocío). ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumours: Surgery for Small Intestinal and Pancreatic Neuroendocrine Tumours. *Neuroendocrinology*. 2017;105:255-65. IF: 3.608.
- Pavel M, Valle JW, Eriksson B, Rinke A, Caplin M, Chen J, Costa F, Falkerby J, Fazio N, Gorbounova V, de Herder W, Kulke M, Lombard-Bohas C, O'Connor J, Sorbye H, García-Carbonero R; All Other Antibes Consensus Conf. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Neoplasms: Systemic Therapy - Biotherapy and Novel Targeted Agents. *Neuroendocrinology*. 2017;105:266-80. IF: 3.608.
- Garcia-Carbonero R, Rinke A, Valle JW, Fazio N, Caplin M, Gorbounova V, O'Connor J, Eriksson B, Sorbye H, Kulke M, Chen J, Falkerby J, Costa F, de Herder W, Lombard-Bohas C, Pavel M; all other Antibes Consensus Conference participants. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Neoplasms: Systemic Therapy – Chemotherapy. *Neuroendocrinology*. 2017;105:281-94. IF: 3.608.
- Kaltsas G, Caplin M, Davies P, Ferone D, García-Carbonero R, Grozinsky-Glasberg S, Horsch D, Janson ET, Kianmanesh R, Kos-Kudla B, Pavel M, Rinke A, Falconi M, de Herder WW; All Other Antibes Consensus Conf. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Pre- and Perioperative Therapy in Patients with Neuroendocrine Tumors. *Neuroendocrinology*. 2017;105:245-54. IF: 3.608.
- Ariza J, Cobo J, Baraia-Etxaburu J, Benito N, Bori G, Cabo J, Corona P, Esteban J, Horcajada JP, Lora-Tamayo J, Murillo O, Palomino J, Parra J, Pigrau C, Del Pozo JL, Riera M, Rodríguez D, Sánchez-Somolinos M, Soriano A, Del Toro MD, de la Torre B; Spanish Network for the Study of Infectious Diseases and the Sociedad Española de Microbiología Clínica (SEIMC). Executive summary of management of prosthetic joint infections. Clinical practice guidelines by the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC). *Enfermedades Infecciosas y Microbiología Clínica*. 2017;35:189-95. IF: 1.714.
- Jiménez Ruiz CA, de Granda Orive JI, Solano Reina S, Riesco Miranda JA, de Higes Martínez E, Pascual Lledó JF, García Rueda M, Lorza Blasco JJ, Signes Costa-Miñana J, Valencia Azcona B, Villar Laguna C, Cristóbal Fernández M. Guidelines for the Treatment of Smoking in Hospitalized Patients. *Archivos de Bronconeumología*. 2017;53:387-94. IF: 2.979.
- Redondo A, Bagué S, Bernabeu D, Ortiz-Cruz E, Valverde C, Alvarez R, Martínez-Trufero J, López-Martin JA, Correa R, Cruz J, Lopez-Pousa A, Santos A, García Del Muro X, Martín-Broto J. Malignant bone tumors (other than Ewing's): clinical practice guidelines; for diagnosis, treatment and follow-up by Spanish Group for Research on Sarcomas (GEIS). *Cancer Chemotherapy and Pharmacology*. 2017;80:1113-31. IF: 2.737.
- Giménez-Arnau A, Ferrer M, Bartra J, Jáuregui I, Labrador-Horillo M, Frutos JO, Silvestre JF, Sastre J, Velasco M, Valero A. Management of chronic spontaneous urticaria in routine clinical practice: A Delphi-method questionnaire among specialists to test agreement with current European guidelines statements. *Allergología et Immunopatología*. 2017;45:134-44. IF: 1.439.
- Giner CP, Vendrell MCM, Martínez RG, López LG, Muñoz PG, Terradillos II, Costa CM, Villares JMM, Maristany CPP, del Rio MTP, Ferreiro SER, Bozano GP; Grp Estandarización SENPE. Pediatric parenteral nutrition: clinical practice guidelines from the Spanish Society of Parenteral and Enteral Nutrition (SENPE), the Spanish Society of Pediatric Gastroenterology, Hepatology and Nutrition (SEGHNP) and the Spanish Society of Hospital Pharmacy (SEFH). *Nutrición Hospitalaria*. 2017;34:745-58. IF: 0.747.
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TECHNOLOGY TRANSFER ACTIVITIES AND IPR PORTFOLIO

During 2017, the Innovation Support Unit of Instituto i+12 (UAI i+12) was particularly active in the area of innovation, thus demonstrating that the Unit is now consolidated. The activity of UAI i+12 during 2017 is set out below.

INDUSTRIAL PROPERTY

In 2017, several inventions from our staff have been registered as follows: 3 Spanish patent applications, 1 international applications (under the PCT), and 1 Spanish trademark.

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:** Procedimiento para la obtención de una máscara polimérica protectora para sistemas de ventilación no invasivo.

Number: P201730140.

Type: Spanish patent.

Inventors: Pedro Villalta García, Marta López Herranz, Federico Losada de Andrés.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (25%), Universidad Complutense de Madrid (25%), Laboratorios LOSAN (50%).

Date of application: 07/02/2017.

- 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: PCT/ES2017/070265.

Type: PCT patent.

Inventors: Luis Miguel Ruilope Urioste, Gloria Álvarez Llamas, Fernando Vivanco Martínez, Laura González Calejo, Eugenia González Barderas.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación de Investigación del Hospital Nacional de Parapléjicos de Toledo (20%), Fundación Instituto de Investigación Sanitaria Jiménez Díaz (60%).

Date of application: 28/04/2017.

- Title:** Combinación de fármacos ANTI-EGFR y ANTI-FGFR para uso en el tratamiento de tumores de pulmón.

Number: P201730928.

Type: Spanish patent.

Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).

Date of application: 13/07/2017.

- Title:** Inhibidores de FGFR para uso en el tratamiento del cáncer de pulmón.

Number: P201730929.

Type: Spanish patent.

Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).

Date of application: 13/07/2017.

- Title:** Cilavex Cirugía Laparoscópica Avanzada Experimental.

Number: M3653404.

Type: Trade mark.

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

Date approved: 11/08/2017.

ACTIONS FOR DEVELOPMENT

- Development of a prototype entitled "**Aplicador de catéter y catéter que incorpora dicho aplicador**" in collaboration with Fundación PRODINTEC within the framework of a DTS of the same name funded by AES in the 2016 call.

PROGRAMS FOR INNOVATION IN HEALTH CARE

- Participation in the program **HEALTHSTART** of the Fundación para el Conocimiento Madri+d in its 2017 edition, with the project entitled "**Dispositivo de fijación en ostomía para la prevención de hernias**", led by Elena García Manzanares. The project was awarded second prize. Value €10,000.
- Participation in the program **HEALTHSTART** of Fundación para el Conocimiento Madri+d in its 2017 edition, with the project entitled "**Mecanismo electromecánico localizador de lesiones no palpables en mamografías**", led by Antonio Martín González. The project was awarded an extraordinary grant of €3,500 for a 3D animation of the device.

ACTIVITY IN THE FRAMEWORK OF PLATAFORMA ITEMAS

- Participation of UAI i+12 in the **Certification Subgroup** of the Plataforma ITEMAS (Implementation and certification of the Innovation Unit under UNE 166002:2014) and in the Transfer Group.

TRAINING ACTIONS

- Continuing professional development course entitled "**INNOVACIÓN: Aspectos Clave en el desarrollo de ideas**" from 18/04/2017 to 21/04/2017. Certified by Comunidad de Madrid.
- Training activity entitled "**Títulos de Derechos de IP débiles**". Training aimed at staff from the Innovation Support Unit of Plataforma ITEMAS. 04/05/2017..

TRAINING

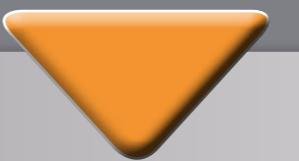
ACTIVITIES

ALLIANCES AND SEARCH FOR PARTNERS

- Signature of 7 national and 6 international confidentiality agreements with third parties (industry, universities, and public research bodies).
- Signature of 6 national and 5 international material transfer agreements with third parties.

TRANSFER ACTIONS

- Search for license holders for the technology portfolio of Instituto i+12, presented via technology offer for each of the inventions, available on the institutional web page www.imas12.es
- **Encuentro de innovadores en Tecnologías Sanitarias – Casos de Éxito.** Participation of Dr. López Medrano with the project "**Aplicador de catéter venoso periférico**". Event organized by Federación Española de Empresas de Tecnología Sanitaria (FENIN), Fundación PONS and Fundación para la Innovación y Prospectiva en Salud en España. 18/09/2017.
- **III Encuentro de Enfermería Madrileña.** Participation of Elena García Manzanares with the project entitled "**Dispositivo de ostomía para prevención y/o contención de hernias paraestomales y validación clínica en pacientes ostomizados**". Hospital Gregorio Marañón. 12/05/2017.



Courses

Seminars and One-Day Courses

Sessions

Research Center i+12: Seminars

Doctoral Theses



In 2017, Instituto de Investigación Hospital 12 de Octubre carried out a series of training activities as part of its annual training plan. These activities were aimed at providing specific training in science to all the professionals who form part of Instituto i+12. The activities are set out below.

COURSES

In 2017, Instituto i+12 held various training courses on research:

- Eighth edition of the course "Diploma Superior en Metodología de la Investigación". FFOMC (Fundación para la Formación de la Organización Médica Colegial). Coordinator: Agustín Gómez de la Cámara. On-line course through the Virtual Campus. 286 hours.
- Innovation Course: Aspectos Clave para el Desarrollo de Ideas. 18-21 April, 2017. 15 hours, face-to-face course.
- Predictive Models Course: Development and validation. First edition. Led by: Agustín Gómez de la Cámara. September 25 to October 5, 2017. 40 hours, face-to-face course.
- MSD-UIMP Clinical Research Expert Course. Clase "Ensayos Clínicos III - Estadística". Online. Lecturers: David Lora Pablos and M^a Teresa García Morales.
- Course on Literature Searches I. 9-10 October 2017. Face-to-face course.
- III Theoretical and Practical Update Course in Respiratory Medicine. 18 October 2017. Face-to-face course.
- I Practical Course on Initiation to Antibiotic Therapy for Residents. Based on case reports. 18 and 19 October 2017. Face-to-face course.
- Genomics in Clinical Practice. 6-8 November 2017. Face-to-face course.
- Course on the Methodological Basis of Biomedical Research and Critical Reading. Led by Agustín Gómez de la Cámara. 13-16 November 2017. 16 hours, face-to-face course.
- Course on Literature Searches II. 27-28 November 2017. Face-to-face course.
- Course: Let's Talk About Asthma. 14 December 2017. Face-to-face course.
- XI Course on Fetal Ultrasound. 14-15 December 2017. Face-to-face course.

SEMINARS AND ONE-DAY COURSES

In 2017, Instituto i+12 also held 15 seminars and one-day informative science sessions.

- i+12 Meeting. Infectious Diseases and AIDS. 28 February 2017.
- I One-Day Session for Residents. 17 March 2017.
- III Open-Doors Session for Future Residents. 28 March 2017.
- VII Ana M^a Martínez Scientific Contest in Nursing. 25 May 2017.
- 35th Annual Conference of the European Society of Pediatric Infectious Diseases (ESPID). 24-27 May 2017. (Hospital 12 de Octubre. Organizing Committee).
- Welcome Session for New Residents. 29 May 2017.
- Scientific Meeting of the Red de Investigación en Inflamación y Enfermedades Reumáticas (RIER [Network for Research on Inflammation and Rheumatic Diseases]). 29 June 2017.
- One-Day Session: Clinical Management for Residents: What Does It Contribute to our Clinical Activity. 14 September 2017.
- European Congress "Giving value to clinical data for improvement in care and research". 21-22 September 2017.
- VII Session on Functional Diseases. 6 October 2017.
- Session on the presentation of the European H2020 Program for health care in Comunidad de Madrid. 9 October 2017.
- III Session for European Restart a Heart Day and Humanization. Sessions on Science, Technology, and Humanization. 16-18 October 2017.
- XXI International Meeting on Research in Care. 14-17 November 2017.
- XI National Congress on the Prevention of Occupational Risks in Health Care. 22-24 November 2017.
- I International Session on Social Responsibility in Health Care. 29 November 2017.

SESSIONS i+12

i+12 holds research seminars and sessions that are aimed at all the staff of the Institute. The sessions are usually led by researchers from i+12 and are aimed at reporting details of the scientific output of a particular research group and the results obtained by the group during the previous period. These sessions and seminars aim to showcase the knowledge generated by i+12 and to strengthen cooperation between the groups that participate in them.

Occasionally, prestigious guest speakers from other institutions are invited to participate in these research seminars and sessions.

DATE	TITLE	SPEAKER
24/01/2017	Aproximaciones Traslacionales para la Comprensión y Manejo del Cáncer Urotelial	Jesús Mª Paramio González
17/02/2017	Biomateriales para Regeneración Ósea Basados en Vidrios Bioactivos: Presente y Perspectivas de Futuro	Antonio Salinas Sánchez
17/03/2017	Patente de un Nuevo Pasteurizador que Mejora la Calidad de la Leche Materna Pasteurizada	Diana Escuder Vieco
28/04/2017	Proyecto de Prevención de las Infecciones en la Planta de Hospitalización de Urología	José Medina Polo
08/05/2017	Sesión Presentación Acción Estratégica en Salud 2017	Joaquín Arenas Barbero
19/05/2017	Laboratorios del 12. Ciencia, Eficiencia y Pasión	Marta Moreno Ana López Joaquín Martínez Estela Paz Rafael Delgado
23/06/2017	Medicina Personalizada de Enfermedades Mitocondriales: del Diagnóstico Genético al Descubrimiento del Fármaco Mediante el Uso de Genes Supresores como Dianas Farmacológicas	Francisco Martínez Azorín
03/07/2017	Sistema de Gestión de Equipos Científicos en el Instituto i+12: Aplicación Schemas	Francisco Javier Fernández Martínez Juan Carlos Rubio Muñoz
26/09/2017	Presentación de la Memoria Anual de Actividad 2016 del Instituto de Investigación Hospital 12 de Octubre	Joaquín Arenas Barbero
17/10/2017	Casos de Éxito del Programa HEALTHSTART	Antonio Martín González Mª Elena García Manzanares
22/11/2017	¿La Luz de Sincrotrón, también en Investigación Biomédica?	Manel Sabés Christina Kamma

RESEARCH CENTER i+12: SEMINARS

- **30 January 2017:** "Identificación de la Gelsolina como posible biomarcador de las enfermedades mitocondriales del sistema OXPHOS" - Alberto García Bartolomé (Rare, Mitochondrial, and Neuromuscular Diseases Group).
- **13 February 2017:**
 - "La Lámina C regula la diferenciación de las células T naïve a fenotipo Th1" - José María González (CNIC/H120).
 - "Expresión génica en linfocitos de pacientes con Demencia Frontotemporal (DFT) y Esclerosis Lateral Amiotrófica (ELA)" - Mª Gabriela Atencia Cibreiro (ALS Unit, Neurology Department).
- **13 March 2017:** "Transphagocytic CD4+T cells cross-prime cytotoxic CD8+T cell inducing anti-tumor response" - Aránzazu Cruz Adalia (Cellular Immunology and Microbiology Laboratory, Centro Nacional de Biotecnología-CSIC).
- **27 March 2017:** "Células dendríticas: Conectando a los patógenos con los linfocitos" - Salvador Iborra Martín (Immunobiology of Inflammation Laboratory, Dept. Vascular Biology and Inflammation, CNIC).
- **10 April 2017:** "Papel de FGF-23 en la aritmogénesis ventricular: Una aproximación traslacional" - Alberto Navarro García (Arterial Hypertension and Cardiovascular Risk Group, Instituto de Investigación i+12).
- **24 April 2017:**
 - "Implicación funcional de los supercomplexos en las patologías mitocondriales" - Cristina Ugalde (Biochemistry Department, Instituto de Investigación i+12).
 - "Diagnóstico de melanoma en biopsia líquida mediante CGH" - Leyla Blanco (Molecular Diseases Laboratory, Instituto de Investigación i+12).
- **8 May 2017:**
 - "Nuestra experiencia en el diagnóstico genético de enfermedades raras mediante secuenciación completa de exoma (WES)" - Francisco Martínez Azorín (Biochemistry Department, Instituto de Investigación i+12).
 - "Papel de FGF-23 en la aritmogénesis ventricular: Una aproximación traslacional" - Alberto Navarro García (Arterial Hypertension and Cardiovascular Risk Group, Instituto de Investigación i+12).
- **22 May 2017:**
 - "Efecto del inhibidor de fosfoodiesterasa-7, S14, sobre el daño mitocondrial inducido por beta amiloide" - Macarena de Vicente (Neurodegenerative Diseases Group, Instituto de Investigación i+12).
 - "Oclusiones cerebrovasculares en la enfermedad de Alzheimer: posible herramienta diagnóstica y diana terapéutica" - Marta Cortes Canteli (Centro Nacional de Investigaciones Cardiovasculares Carlos III-CNIC).
- **5 June 2017:** "La asociación de la tetraspanina CD81 con SAMHD1 regula la transcripción reversa del VIH-1" - Vera Rocha Perugini (Centro Nacional de Investigaciones Cardiovasculares Carlos III-CNIC).
- **19 June 2017:**
 - "Regulación del catabolismo del triptófano por la inflamación en fibroblastos sinoviales" - Sandra Ergueta (Inflammatory and Autoimmune Diseases Group, Instituto de Investigación i+12).
 - "Osteoporosis postrasplante. Efecto de los inmunosupresores sobre células progenitoras mesenquimales" - Paz de la Torre (Regenerative Medicine Group, Instituto de Investigación i+12).

DOCTORAL THESES DIRECTED OR DEFENDED IN 2017 BY RESEARCHERS FROM THE INSTITUTE

- **4 June 2017:**
 - "Relación entre la actividad MMP-9 y la respuesta al tratamiento en la hipertensión arterial resistente" - Elena Rodríguez (Arterial Hypertension and Cardiovascular Risk Group, Instituto Investigación i+12).
 - "Immature/activated NK cell compartment with acquired effector/memory T cell phenotype in GATA2 deficient patients" - Raquel Ruiz (Immunodeficiencies and Immunology of Transplants Group, Instituto de Investigación i+12).
- **17 July 2017:** "Inmunosecuenciación y sus aplicaciones en Investigación y Diagnóstico" - Ainhoa Ceballos (Diagnóstica Longwood SRL).
- **25 September 2017:** "Cambios en la expresión proteica plaquetaria en pacientes con deterioro cognitivo leve y enfermedad de Alzheimer" - Marta González Sánchez (Neurodegenerative Diseases Group, Instituto de Investigación i+12).
- **9 October 2017:** "La disfunción del metabolismo lipídico inducida por la inflamación crónica". Efecto de la inhibición de la ruta Jak/Stat" - Raquel Largo Carazo (Bone and Joint Disease Laboratory, IIS-Fundación Jiménez Díaz).
- **23 October 2017:** "Nanopartículas de sílice mesoporosa sensibles a ultrasonido para aplicaciones biomédicas" - Juan Luis París (Research on Intelligent Biomaterials Group, Universidad Complutense de Madrid).
- **6 November 2017:** "Microbiota sensing by a Mincle-Sykaxis in dendritic cells promotes intestinal immune barrier via the steady-state regulation of IL-17 and IL-22" - María Martínez López (Centro Nacional de Investigaciones Cardiovasculares Carlos III-CNIC).
- **20 November 2017:** "Significado de las células supresoras de estirpe mieloide (MDSC) en trasplante" - Alberto Utrero Rico (Immunodeficiencies and Immunology of Transplants Group, Instituto de Investigación i+12).
- **11 December 2017:** "Distintos mecanismos regulan la cooperación entre TNF- α e IL6/sIL6R en fibroblastos sinoviales. Impacto en la artritis reumatoide" - Álvaro Valín (Autoimmune and Inflammatory Diseases Group, Instituto de Investigación i+12).

Candidate	Title	University	Date defended	Research Area/Group	Director(s) of Thesis
Alejandra Leivas Aldea	Células natural killer como estrategia terapéutica frente a mieloma múltiple	Complutense de Madrid	30/05/2017	Cancer/Translational Haematology	Joaquín Martínez López
Alicia Arenas Cortés	Búsqueda de nuevos factores pronósticos y de terapias combinadas en el tratamiento de neoplasias mieloproliferativas	Complutense de Madrid	05/07/2017	Cancer/Translational Haematology	Joaquín Martínez López
Estela Martín Clavero	Aplicabilidad y sensibilidad de la biopsia de médula ósea vs aspirado de médula ósea en la valoración de la remisión completa en el mieloma	Complutense de Madrid	12/07/2017	Cancer/Translational Haematology	Joaquín Martínez López
Ana Ortiz de Mendivil Arrate	Evaluación radiológica de las metástasis cerebrales tratadas con radiocirugía	CEU San Pablo	03/01/2017	Cancer/Neuro-Oncology	Ana Ramos González
Asunción Díaz Serrano	Caracterización molecular del cáncer gástrico HER2 positivo y su aplicabilidad práctica para el tratamiento personalizado del cáncer gástrico	Complutense de Madrid	03/01/2017	Cancer/Thoracic and Clinical-Translational Oncology	Luis Gonzaga Paz-Ares Rodríguez Carlos Gómez Martín
Álvaro Diego Quintanal Villalonga	Determinación del papel de FGFR1 y FGFR4 en cáncer de pulmón	Sevilla	20/10/2017	Cancer/Thoracic and Clinical-Translational Oncology	Irene Ferrer Sánchez Luis Gonzaga Paz-Ares Rodríguez Sonia Molina Pinelo
Cristian Suárez Cabrera	Implicación de nuevas moléculas de la vía de señalización de RAS en el cáncer de mama	Complutense de Madrid	24/03/2017	Cancer/Genitourinary, Cellular, and Molecular Oncology	José Manuel Navarro Espinel Ángel Ramírez Merino
Josefa Pilar Alameda Úbeda-Contreras	Implicación de CYLD en la homeostasis y tumorigénesis de piel y en el envejecimiento	Complutense de Madrid	22/06/2017	Cancer/Genitourinary, Cellular, and Molecular Oncology	Mª de los Llanos Casanova Hernández
Mª de los Reyes Oliver Pérez	Impacto de la afectación del espacio linfovascular en el pronóstico del carcinoma de endometrio: factores asociados y estratificación de riesgo	Complutense de Madrid	25/04/2017	Cancer/Breast and Gynecologic Cancer	Álvaro Tejerizo García Jesús Salvador Jiménez López

Candidate	Title	University	Date defended	Research Area/ Group	Director(s) of Thesis	Candidate	Title	University	Date defended	Research Area/ Group	Director(s) of Thesis
Mª Victoria Bravo Violeta	Manejo conservador de lesiones cervicales de alto grado en mujeres jóvenes. Estudio longitudinal prospectivo	Complutense de Madrid	25/04/2017	Cancer/Breast and Gynecologic Cancer	Jesús Salvador Jiménez López Álvaro Tejerizo García Gregorio López González	Paula Rioja Conde	Análisis comparativo de los resultados en función del tipo de tutorización intraductal pancreática en la duodenopancreatectomía cefálica	Complutense de Madrid	29/03/2017	Chronic Diseases and Transplantation/ Abdominal Organ Transplant	Luis Carlos Jiménez Romero Iago Justo Alonso
Marco Pérez	Xenoinjertos de tumores derivados de pacientes como modelos para la búsqueda de biomarcadores de sensibilidad a fármacos	Sevilla	13/06/2017	Cancer/Digestive Cancer	Amancio Carnero Moya Rocío García Carbonero	Juan Mª Herrero Martínez	Infecciones en trasplante de páncreas. Epidemiología, factores de riesgo e impacto en la función del injerto pancreático a largo plazo	Complutense de Madrid	21/06/2017	Chronic Diseases and Transplantation/ Abdominal Organ Transplant	Carlos Juan Lumbrejas Bermejo Luis Carlos Jiménez Romero
Marta Benavent Viñuales	Estudio de polimorfismos de genes implicados en la regulación de la angiogénesis: incidencia y relevancia clínica en tumores neuroendocrinos	Sevilla	22/09/2017	Cancer/Digestive Cancer	Mª de los Ángeles Castilla Moro Rocío García Carbonero	Cristina Alegre Torrado	Monoterapia inmunosupresora con inhibidores de m-TOR en trasplante hepático. Estudio comparativo entre sirolimus y everolimus	Complutense de Madrid	12/07/2017	Chronic Diseases and Transplantation/ Abdominal Organ Transplant	Luis Carlos Jiménez Romero Enrique Moreno González
Julia Cruces González	Cambios conductuales e inmunitarios en el envejecimiento cronológico, prematuro y acelerado. Estrategias para una longevidad saludable	Complutense de Madrid	03/07/2017	Chronic Diseases and Transplantation/ Ageing, Neuroimmunology, and Nutrition	Mónica de la Fuente del Rey	Alberto García Bartolomé	Identificación de la gelsolina como posible biomarcador de las enfermedades mitocondriales del Sistema OXPHOS	Autónoma de Madrid	03/02/2017	Rare and Genetically Based Diseases/ Rare, Mitochondrial, and Neuromuscular Diseases	Cristina Ugalde Bilbao
Úrsula Verdalle Guzmán	Hipertensión arterial refractaria en pacientes con enfermedad renal crónica: pautas de optimización del tratamiento diurético	Complutense de Madrid	29/05/2017	Chronic Diseases and Transplantation/ Clinical Nephrology	Manuel Praga Terente José Luño Fernández Mª de los Ángeles Goicoechea Diezhandino	Teresa Galera Monge	Síndrome de Leigh: Estudio fisiopatológico en neuronas y cardiomiocitos derivados de iPSC	Autónoma de Madrid	21/04/2017	Rare and Genetically Based Diseases/ Pathophysiology of Mitochondrial Biogenesis	Mª Esther Gallardo Pérez Rafael Garesse Alarcón
David Arroyo Rueda	Índice tobillo-brazo como método de valoración de riesgo vascular en pacientes con enfermedad renal crónica	Complutense de Madrid	26/06/2017	Chronic Diseases and Transplantation/ Clinical Nephrology	Manuel Praga Terente Elvira Dolores Fernández Giráldez Juan Manuel López Gómez	David Lora Pablos	Modelos matemáticos de pronóstico para cáncer de cérvix localmente avanzado. Validación externa de los modelos existentes	Complutense de Madrid	28/03/2017	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/ Clinical Epidemiology, Health Technologies and Information and Communication Techniques	Agustín Gómez de la Cámara Rafael Enríquez de Salamanca Lorente José Fermín Pérez-Regadera Gómez
Javier Eduardo Reque Santiváñez	Hipertensión pulmonar en pacientes con enfermedad renal crónica: prevalencia, factores asociados y valor pronóstico	Complutense de Madrid	07/09/2017	Chronic Diseases and Transplantation/ Clinical Nephrology	Manuel Praga Terente Nayara Panizo González Juan Manuel López Gómez						
Nuria Roldán López	Relaciones estructura-función de la proteína SP-C del surfactante pulmonar: efectos sobre la estructura de membranas y papel del colesterol	Complutense de Madrid	11/05/2017	Chronic Diseases and Transplantation/ Pulmonary Surfactant and Respiratory Diseases	Mª Begoña García Álvarez Jesús Pérez Gil						

Candidate	Title	University	Date defended	Research Area/ Group	Director(s) of Thesis	Candidate	Title	University	Date defended	Research Area/ Group	Director(s) of Thesis
Greta Arias Merino	Mortalidad debida a enfermedades raras neurológicas en Europa: enfermedad de Huntington, ataxias hereditarias y enfermedades de la motoneurona	Complutense de Madrid	27/09/2017	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/ Clinical Epidemiology, Health Technologies and Information and Communication Techniques	Agustín Gómez de la Cámara Verónica Alonso Ferreira Manuel Posada de La Paz	Anais Jiménez Reinoso	Impacto de la deficiencia de C3 plasmático en la diferenciación y función leucocitarias	Complutense de Madrid	06/07/2017	Inflammatory Diseases and Immune Disorders/Lymphocyte Immunobiology	José Ramón Regueiro González-Barros
Diana Escuder Vieco	Calidad de la leche donada durante el procesamiento en un Banco de Leche Humana. Innovación en los procedimientos	Complutense de Madrid	19/06/2017	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/ Maternal and Child Health	Carmen Rosa Pallás Alonso Leónides Fernández Álvarez Irene Espinosa Martos	Mª Magdalena Molero Abraham	Estudio de la respuesta de linfocitos T condicionados por células epiteliales de la mucosa oral	Complutense de Madrid	15/09/2017	Inflammatory Diseases and Immune Disorders/Lymphocyte Immunobiology	Pedro Antonio Reche Gallardo Mª Esther Lafuente Duarte
Patricia Ahijado Cañizares	Estudio de la validez y precisión de la historia clínica informatizada en atención primaria como fuente de datos epidemiológicos y de gestión, en un área sanitaria de la Comunidad de Madrid	Autónoma de Madrid	28/06/2017	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/ Research on Complex Patients and Health System	Ángel Alberquilla Menéndez-Asenjo Juan Antonio Vargas Núñez Luis Alfonso Rico Zalba	Patricia Castro Sánchez	Papel de la fosfatasa de regeneración hepática 1 (PRL-1) durante el ensamblaje de la sinapsis inmunológica y la activación de los linfocitos T. Role of phosphatase of regenerating liver 1 (PRL-1) during immunological synapse assembly and T Cell activation	Complutense de Madrid	20/12/2017	Inflammatory Diseases and Immune Disorders/Lymphocyte Immunobiology	Pedro Roda Navarro
Mª Dolores Cano Pérez	Utilización de los servicios sanitarios por los mayores de 65 años. Análisis de los factores determinantes y de la variabilidad	Autónoma de Madrid	13/09/2017	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/ Research on Complex Patients and Health System	Ángel Alberquilla Menéndez-Asenjo Ángel Otero Puime Mª Victoria Castell Alcalá	Raquel Ruiz García	Estudio fenotípico, funcional y molecular de inmunodeficiencias con defectos de citotoxicidad y predisposición a infecciones virales y tumores	Complutense de Madrid	21/12/2017	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	Luis Miguel Allende Martínez
Paula Navas Tejedor	Bases genéticas en la población española con hipertensión arterial pulmonar idiopática o hereditaria y enfermedad venooclusiva pulmonar. Implicaciones clínicas actuales	Alcalá de Henares	10/10/2017	Cardiovascular/ Research on Heart Failure-Hypertension	José Luis Zamorano Gómez Pilar Escribano Subiás	Mª Verónica Romero Ferreiro	Cognición social y procesamiento emocional en pacientes con esquizofrenia	Complutense de Madrid	23/06/2017	Neurosciences and Mental Health/ Cognition and Psychosis	Roberto Rodríguez Jiménez Luis Aguado Aguilar
Paula Domínguez Manzano	Transposición de grandes arterias: precisión del diagnóstico prenatal y estudio de factores pronósticos a largo plazo	Salamanca	07/07/2017	Cardiovascular/ Perinatal Medicine	Alberto Galindo Izquierdo	Mónica Domínguez Tobar	Calidad de Vida en Esquizofrenia	Complutense de Madrid	07/07/2017	Neurosciences and Mental Health/ Cognition and Psychosis	Roberto Rodríguez Jiménez Tomás Palomo Álvarez Alexandra Teófila Bagney Lifante
						David Martín Hernández	Origen y Consecuencias de la Inflamación en Depresión	Complutense de Madrid	06/06/2017	Neurosciences and Mental Health/ Translational Psychiatry	Juan Carlos Leza Cerro Javier Rubén Caso Fernández
						Isabel Mª Castillo García	Correlatos clínicos y morfológicos de la evolución de los síntomas neuropsiquiátricos en la demencia moderada y grave	Complutense de Madrid	06/07/2017	Neurosciences and Mental Health/ Translational Psychiatry	Luis Fernando Agüera Ortiz
						Ignacio Marín Jiménez	Efecto del sistema cannabinoides endógeno sobre la función de barrera intestinal	Complutense de Madrid	07/09/2017	Neurosciences and Mental Health/ Translational Psychiatry	Juan Carlos Leza Cerro Luis Menchén Viso

FINANCIAL

REPORT

Candidate	Title	University	Date defended	Research Area/ Group	Director(s) of Thesis
Rafael Martínez Pérez	Papel pronóstico de la resonancia magnética en el trauma cervical	Complutense de Madrid	08/09/2017	Neurosciences and Mental Health/ Neurotraumatology and Subarachnoid Hemorrhage	Alfonso Lagares Gómez Abascal
Alicia García Culebras	Estudio del papel de TLR4 en la transformación hemorrágica e infiltración aguda tras ictus experimental	Complutense de Madrid	16/06/2017	Neurosciences and Mental Health/ Neurovascular	Ignacio Lizasoáin Hernández Mª Ángeles Moro Sánchez Ana Moraga Yébenes
Sara Palma Tortosa	Perfil temporal de la neurogénesis tras un ictus isquémico experimental. (Implicación de TLR4).	Complutense de Madrid	23/06/2017	Neurosciences and Mental Health/ Neurovascular	Ignacio Lizasoáin Hernández Mª Ángeles Moro Sánchez Jesús Miguel Pradillo Justo
Laura González Saiz	Beneficios de un programa de ejercicio físico intrahospitalario en pacientes con hipertensión pulmonar	Universidad Europea	20/07/2017	Transversal Area/ Research on Physical Activity and Health	Alejandro Lucía Mulas Mª del Carmen Fiua Lucas Mª Paz Sanz Ayán
Javier García Cárcelés	Moduladores alostéricos de receptores de serotonina y dopamina: nuevos fármacos sobre GPCRS	Complutense de Madrid	27/04/2017	Transversal Area/ Medical Chemistry Laboratory	Mª Luz López Rodríguez Bellinda Benjamú Salama Henar Vázquez Villa
Débora Zian	Los receptores LPA1 y LPA2 como nuevas dianas terapéuticas para el tratamiento de patologías del Sistema Nervioso Central	Complutense de Madrid	05/05/2017	Transversal Area/ Medical Chemistry Laboratory	Mª Luz López Rodríguez Silvia Ortega Gutiérrez Henar Vázquez Villa
Valentina Nicolini	Ce3+/Ce4+-containing potential bioactive glasses: synthesis, characterization and evaluation of enzyme-like activity	Módena y Reggio Emilia	05/04/2017	Transversal Area/ Research on Intelligent Biomaterials	Ledi Menabue Antonio Salinas Sánchez
Juan Luis París Fernández de la Puente	Nanopartículas de sílice mesoporosa sensibles a ultrasonido para aplicaciones biomédicas	Complutense de Madrid	14/12/2017	Transversal Area/ Research on Intelligent Biomaterials	Miguel Manzano García Mª Victoria Cabañas Criado

Financial Report

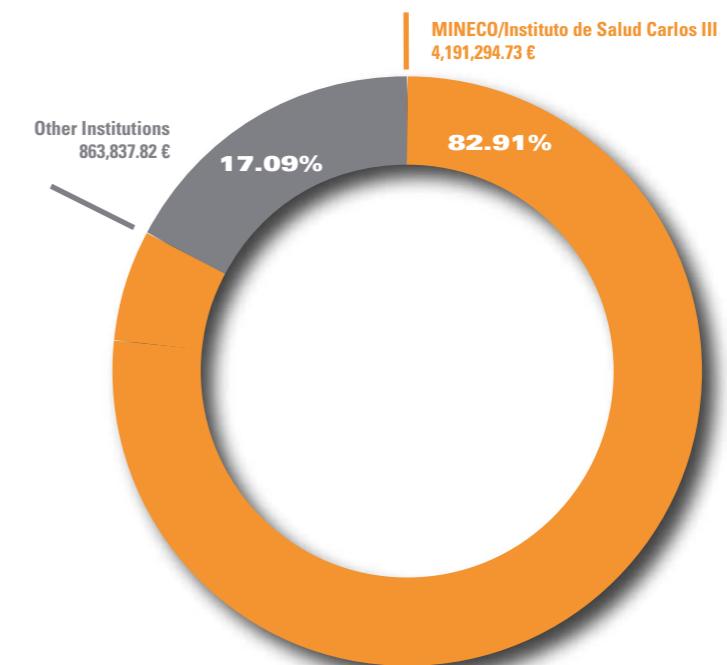


During 2017, Instituto de Investigación Hospital 12 de Octubre obtained funding to the value of €17,218,777.38.

The following table shows the financial resources corresponding to the year 2017 classified by source of funding.

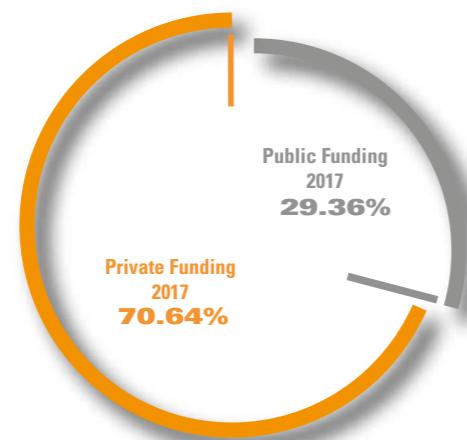
	Income 2017	% Income
Public Funding	5,055,132.55 €	29.36%
Private Funding	12,163,644.83 €	70.64%
Total	17,218,777.38 €	

Public Funding Sources 2017



The following figure shows the distribution of financial resources by type of funding.

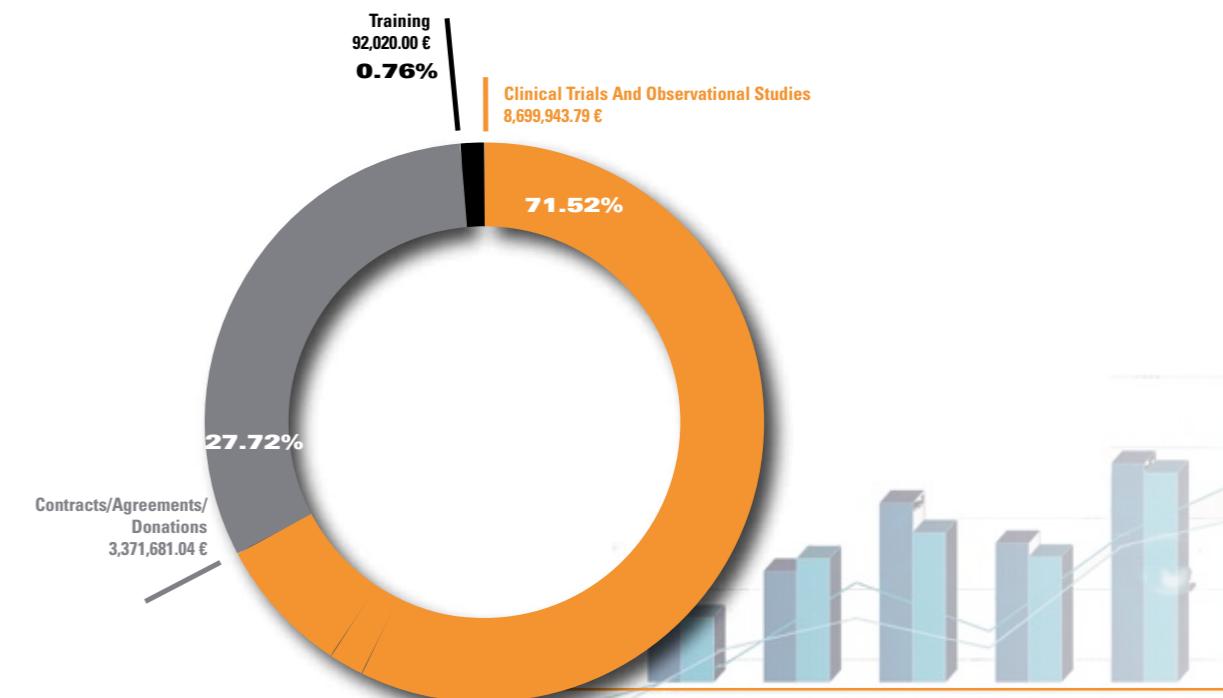
Instituto i+12 Funding 2017



The following table shows private funding obtained by Instituto i+12 in 2017 according to the source.

	Private Funding 2017	% Private Funding
Clinical Trials and Observational Studies	8,699,943.79 €	71.52%
Contracts/Agreements/Donations	3,371,681.04 €	27.72%
Training	92,020.00 €	0.76%
TOTAL	12,163,644.83 €	100.00%

Private Funding Sources 2017



The following table shows the distribution of public funding obtained in 2017 by Instituto i+12 according to the funding body.

	Public Funding 2017	% Public Funding
MINECO/Istituto de Salud Carlos III	4,191,294.73 €	82.91%
Other Institutions	863,837.82 €	17.09%
TOTAL	5,055,132.55 €	100.00%

RESEARCH AREAS

AND GROUPS

AREA 1. Cancer

**AREA 2. Chronic Diseases and
Transplantation**

**AREA 3. Rare and Genetically
Based Diseases**

**AREA 4. Epidemiology and Evaluation
of Technologies, Sanitary Services
and Information Systems**

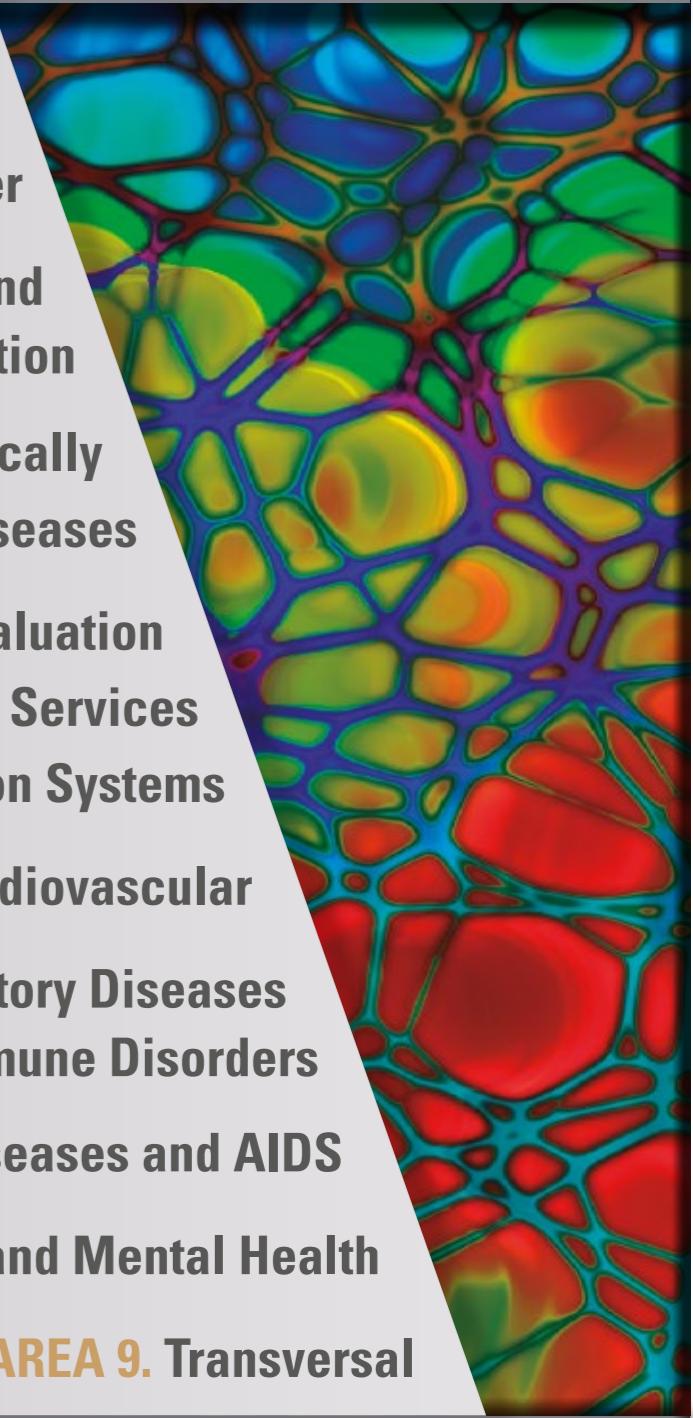
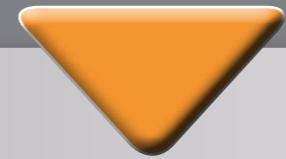
AREA 5. Cardiovascular

**AREA 6. Inflammatory Diseases
and Immune Disorders**

AREA 7. Infectious Diseases and AIDS

AREA 8. Neurosciences and Mental Health

AREA 9. Transversal



CANCER

COORDINATOR: JOSÉ LUIS RODRÍGUEZ PERALTO

Translational Biophysics

Translational Energetic Metabolism

Translational Haematology

Neuro-Oncology

Cutaneous Oncology

**Thoracic and
Clinical-Translational Oncology**

**Genitourinary and Cellular
and Molecular Oncology**

Breast and Gynecologic Cancer

Digestive Cancer

TRANSLATIONAL BIOPHYSICS



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: 01/07/2016
End date: 17/07/2019
- 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
- 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)

Fecha comienzo: 01/01/2016
Fecha finalización: 31/12/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	9	51.826
TOTAL	9	51.826

- Sreij R, Dargel C, Moleiro LH, Monroy F, Hellweg T, Aescin Incorporation and Nanodomain Formation in DMPC Model Membranes. *Langmuir*. 2017;33:12351-61. IF: 3.833. Article.
- Almendro-Vedia VG, Natale P, Mell M, Bonneau S, Monroy F, Joubert F, López-Montero I. Nonequilibrium fluctuations of lipid membranes by the rotating motor protein F1FO-ATP synthase. *Proceedings of the National Academy of Sciences of the United States of America*. 2017;114:11291-6. IF: 9.661. Article.
- Monroy F. Surface hydrodynamics of viscoelastic fluids and soft solids: Surfing bulk rheology on capillary and Rayleigh waves. *Advances in Colloid and Interface Science*. 2017;247:4-22. IF: 7.223. Article.
- Beltrán-Heredia E, Almendro-Vedia VG, Monroy F, Cao FJ. Modeling the Mechanics of Cell Division: Influence of Spontaneous Membrane Curvature, Surface Tension, and Osmotic Pressure. *Frontiers in physiology*. 2017;8:312. IF: 4.134. Article.
- Vedia VGA, Natale P, Chen S, Monroy F, Rosilio V, Lopez-Montero I. iGUVs: Preparing Giant Unilamellar Vesicles with a Smartphone and Lipids Easily Extracted from Chicken Eggs. *Journal of Chemical Education*. 2017;94:644-9. IF: 1.419. Article.
- Encinar M, Casado S, Calzado-Martín A, Natale P, San Paulo Á, Calleja M, Vélez M, Monroy F, López-Montero I. Nanomechanical properties of composite protein networks of erythroid membranes at lipid surfaces. *Colloids and Surfaces B-Biointerfaces*. 2017;149:174-83. IF: 3.887. Article.
- Arriaga LR, Rodriguez-Garcia R, Moleiro LH, Prevost S, Lopez-Montero I, Hellweg T, Monroy F. Dissipative dynamics of fluid lipid membranes enriched in cholesterol. *Advances in Colloid and Interface Science*. 2017;247:514-20. IF: 7.223. Article.
- Moleiro LH, Mell M, Bocanegra R, Lopez-Montero I, Fouquet P, Hellweg T, Carrascosa JL, Monroy F. Permeability modes in fluctuating lipid membranes with DNA-translocating pores. *Advances in Colloid and Interface Science*. 2017;247:543-54. IF: 7.223. Article.
- Catapano ER, Natale P, Monroy F, Lopez-Montero I. The enzymatic sphingomyelin to ceramide conversion increases the shear membrane viscosity at the air-water interface. *Advances in Colloid and Interface Science*. 2017;247:555-60. IF: 7.223. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

TRANSLATIONAL ENERGIC METABOLISM

GROUP DIRECTOR

Cuezva Marcos, José Manuel

RESEARCH

GROUP MEMBERS

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

Núñez de Arenas Flores, Cristina
Sánchez González, Cristina
Santacatterina, Fulvio
Torresano Cicuendez, Laura

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

- Title: Papel de la bioenergética mitocondrial sobre el "secretoma" del músculo esquelético durante el ejercicio y en patología.
Principal Investigator: Laura Formentini
Project No.: SAF2016-76028-R
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/01/2017
End date: 31/12/2019
Project managed by UAM
- Title: La mitocondria y su disfunción en patología: papel de IF1.
Principal Investigator: José Manuel Cuezva Marcos

- Project No.: SAF2016-75916-R
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/01/2017
End date: 31/12/2019
Project managed by UAM
- Title: Función oncogénica de IF1, el inhibidor de la H₊-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	Σ IF (JCR 2016)
Articles	6	26.272
Reviews	1	5.788
Total	7	32.060

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- Formentini L, Santacatterina F, Núñez de Arenas C, Stamatakis K, López-Martínez D, Logan A, Fresno M, Smits R, Murphy MP, Cuezva JM. Mitochondrial ROS Production Protects the Intestine from Inflammation through Functional M2 Macrophage Polarization. *Cell Reports*. 2017;19:1202-13. IF: 8.282. Article.
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- García-Ledo L, Nuevo-Tapioles C, Cuevas-Martín C, Martínez-Reyes I, Soldevilla B, González-Llorente L, Cuezva JM. Overexpression of the ATPase Inhibitory Factor 1 Favors a Non-metastatic Phenotype in Breast Cancer. *Frontiers in oncology*. 2017;7:69. IF: N/A. Article.
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*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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

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Sánchez Vega, Laura
Sánchez-Vega Carrión, Beatriz
Tornero Alia, María
Valeri Lozano, Antonio

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	5
Competitive	AECC	1
Noncompetitive	Various	11
TOTAL		17

- Title: Alteraciones moleculares involucradas en los mecanismos de refractariedad y recaída de la leucemia mieloi-de aguda: implicaciones terapéuticas.
Principal Investigator: Rosa M. Ayala Díaz
Project No.: PI16/01530
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- 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: 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: Fundación Española de Hematología y Hemoterapia
Start date: 08/06/2017
End date: 07/06/2018
- 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: 31/12/2019
- 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, extended to 31/01/2018
- Title: Programa de Mieloma Múltiple. Desarrollo de una plataforma de diagnóstico integral y rápido para medicina personalizada en la leucemia mieloblástica aguda.
Principal Investigator: Joaquín Martínez López
Funding Body: Fundación PETHEMA para el tratamiento de la leucemia y el linfoma
Start date: 14/09/2017
End date: 13/09/2020
- 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: 31/12/2016, extended to 31/07/2017
- 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: Proyecto "ENLACE".
Principal Investigator: Joaquín Martínez López
Funding Body: Celgene, S.L.
Start date: 20/12/2017
End date: 31/03/2019

- 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: 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: 31/12/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	30	192.476
Reviews	2	14.610
Editorials	1	1.125
Total	33	208.211
Letters	4	30.697
Total	37	238.908

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- 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 Lahuerta Palacios
Funding Body: Amgen, S.A.

Start date: 01/05/2015
End date: 30/04/2018

- 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

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- García-Sanz R, Corchete LA, Alcoleba M, Chillon MC, Jiménez C, Prieto I, García-Álvarez M, Puig N, Rapado I, Barrio S, Oriol A, Blanchard MJ, de la Rubia J, Martínez R, Lahuerta JJ, González Díaz M, Mateos MV, San Miguel JF, Martínez-López J, Sarasquete ME, GEM (Grupo Español de MM)/PETHEMA (Programa para el Estudio de la Terapéutica en Hemopatías Malignas) cooperative study group. Prediction of peripheral neuropathy in multiple myeloma patients receiving bortezomib and thalidomide: a genetic study based on a single nucleotide polymorphism array. *Hematological Oncology*. 2017;35:746-51. IF: 3.118. Article.

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- C, Hari P, Mellqvist U, Usmani SZ, Dytfield D, Badros AZ, Moreau P, Kim K, Otero PR, Lee JH, Shustik C, Waller D, Chng WJ, Ozaki S, Lee JJ, de la Rubia J, Eom HS, Rosinol L, Lahuerta JJ, Sureda A, Kim JS, Durie BGM. Natural history of relapsed myeloma, refractory to immunomodulatory drugs and proteasome inhibitors: a multicenter IMWG study. *Leukemia*. 2017;31:2443-8. IF: 11.702. Article.

- Ribera J, Zamora L, Morgades M, Mallo M, Solanes N, Batlle M, Vives S, Granada I, Juncà J, Malinverní R, Genescà E, Guàrdia R, Mercadal S, Escoda L, Martínez-López J, Tormo M, Esteve J, Pratcorona M, Martínez-Losada C, Solé F, Feliu E, Ribera JM; Spanish PETHEMA Group and the Spanish Society of Hematology. Copy number profiling of adult relapsed B-cell precursor acute lymphoblastic leukemia reveals potential leukemia progression mechanisms. *Genes Chromosomes & Cancer*. 2017;56:810-20. IF: 3.696. Article.

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Jimenez-Ubieto A, Grande C, Caballero D, Yanez L, Novelli S, Hernandez MT, Manzanares M, Arranz R, Ferreiro JJ, Bobillo S, Mercadal S, Galego A, Jimenez JL, Moraleda JM, Vallejo C, Albo C, Perez E, Marrero C, Magnano L, Palomera L, Jarque I, Coria E, Rodriguez A, Martin A, Lopez-Guillermo A, Salar A, Lahuerta JJ; GELTAMO Grp Espanol Linfomas. Progression-free survival at 2years post-autologous transplant: a surrogate end point for overall survival in follicular lymphoma. *Cancer Medicine*. 2017;6:2766-74. IF: 3.362. Article.

Mingot-Castellano ME, Grande-García C, Valcárcel-Ferreiras D, Conill-Cortés C, de Olivar-Oliver L. Sustained Remission in Patients with Primary Immune Thrombocytopenia after Romiplostim Tapering and

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Hernández P, Gorrochategui J, Primo D, Robles A, Rojas JL, Espinosa AB, Gómez C, Martínez-López J, Bennett TA, Ballesteros J. Drug Discovery Testing Compounds in Patient Samples by Automated Flow Cytometry. *SLAS Technology*. 2017;22:325-37. IF: N/A. Article.

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Weisel K, Doyen C, Dimopoulos M, Yee A, Lahuerta JJ, Martin A, Travers K, Druyts E, Toor K, Abildgaard N, Lu J, Van Droogenbroeck J, Geraldes C, Petrini M, Voillat L, Voog E, Facon T. A systematic literature review and network meta-analysis of treatments for patients with untreated multiple myeloma not eligible for stem cell transplantation. *Leukemia & Lymphoma*. 2017;58:153-61. IF: 2.755. Review.

Mateos MV, Bladé J, Lahuerta JJ, San-Miguel J. Management of smoldering myeloma: Recommendations of the Spanish Myeloma Group. *Medicina Clinica*. 2017;148:517-23. IF: 1.125. Editorial Material.

Salar A, Domingo-Domench E, Panizo C, Nicolás C, Bargay J, Muntañola A, Canales M, Bello JL, Sancho JM, Tomás JF, Rodríguez MJ, Peñalver J, Grande C, Sánchez-Blanco JJ, Palomera L, Arranz R, Conde E, García M, García JF, Caballero D, Montalbán C. Long-term results of a phase 2 study of rituximab and bendamustine for mucosa-associated lymphoid tissue lymphoma. *Blood*. 2017;130:1772-4. IF: 13.164. Letter.

García-Granero DB, Vera DG, Grande C, Jimenez RB, Rodriguez CF, Bobolea I. Modern challenges of allergic bronchopulmonary aspergillosis diagnosis and management: Finding from a case study with a history of rituximab use. *Annals of Allergy Asthma & Immunology*. 2017;119:93-4. IF: 3.728. Letter.

López-Blanco R, de Fuenmayor-Fernández de la Hoz CP, González de la Aleja J, Martínez-Sánchez P, Ruiz-Morales J. Hyperammonemic encephalopathy associated with multiple myeloma. *Neurologia*. 2017;32:339-41. IF: 2.103. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

Candidate: Alejandra Leivas Aldea

Title: Células natural killer como estrategia terapéutica frente a mieloma múltiple.

Director/s: Joaquín Martínez López

Date Defended: 30/05/2017

University: Universidad Complutense de Madrid

Candidate: Alicia Arenas Cortés

Title: Búsqueda de nuevos factores pronósticos y de terapias combinadas en el tratamiento de neoplasias mieloproliferativas.

Director/s: Joaquín Martínez López

Date Defended: 05/07/2017

University: Universidad Complutense de Madrid

Candidate: Estela Martín Clavero

Title: Aplicabilidad y sensibilidades de la biopsia de médula ósea vs aspirado de médula ósea en la valoración de la remisión completa en el mieloma.

Director/s: Joaquín Martínez López

Date Defended: 12/07/2017

University: Universidad Complutense de Madrid

PATENTS

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

Number: 14932267.

Type: USA patent.

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

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

European Patent Application No.: P14191967.

Date of application: 05/11/2014

- 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 contra el cáncer (50%).
- Spanish Patent Application No.:** P201330446.
- Date of application:** 26/03/2013

NEURO-ONCOLOGY



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	AECC	1
Noncompetitive	Various	4
TOTAL		5

- Title: Study of the molecular mechanisms involved in primary (glioblastoma) and secondary (metastasis) brain tumors to identify novel therapeutic targets and anti-cancer agents, biomarkers to select treatments and novel non-invasive methods for molecular diagnosis.
 Principal Investigator: Juan Manuel Sepúlveda Sánchez
 Funding Body: IDP Discovery Pharma, S.L.
 Start date: 01/03/2017
 End date: 31/05/2017, extended to 31/05/2018
- Title: Study of the antitumour efficacy of S55478 in pre-clinical models of glioblastoma.
 Principal Investigator: Juan Manuel Sepúlveda Sánchez
 Funding Body: Institut de Recherches Internationales Servier
 Start date: 23/01/2014
 End date: 22/01/2017
- Title: Efecto de inhibidores de proteínas IDP ("Intrinsically Disordered Proteins") sobre el crecimiento y la supervivencia de células gliales.

- 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, extended to 30/06/2018

- 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

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: Therapy optimization in glioblastoma: an integrative human data-based approach using mathematical models.

- Principal Investigator: Víctor Pérez García (Universidad de Castilla-La Mancha)
Funding Body: James S. Mc. Donnell Foundation
Start date: 2016
End date: 2019
- 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

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	17	52.518
Reviews	1	2.592
Editorials	3	14.167
Total	21	69.277
Letters	2	3.053
Total	23	72.330

- Martín Sánchez M, Pérez Escutia MÁ, Lora Pablos D, Guardado Gonzales S, Cabezas Mendoza AM, Campos Bonel A, Pérez Montero H, D'Ambrosi R, Pérez-Regadera Gómez JF. Adjuvant radiochemotherapy in locally advanced gastric cancer. *Strahlentherapie und Onkologie*. 2017;193:1005-13. IF: 2.735. Article.
- de Velasco G, Trilla-Fuertes L, Gamez-Pozo A, Urbanowicz M, Ruiz-Ares G, Sepúlveda JM, Prado-Vazquez G, Arevalillo JM, Zapater-Moros A, Navarro H, Lopez-Vacas R, Manneh R, Otero I, Villacampa F, Paramio JM, Vara JAF, Castellano D. Urothelial cancer proteomics provides both prognostic and functional information. *Scientific Reports*. 2017;7:15819. IF: 4.259. Article.
- Cicuendez M, Castaño-León A, Ramos A, Hilario A, Gómez PA, Lagares A. Magnetic resonance in traumatic brain injury: A comparative study of the different conventional magnetic resonance imaging sequences and their diagnostic value in diffuse axonal injury. *Neurocirugia*. 2017;28:266-75. IF: 0.548. Article.
- Sepúlveda-Sánchez JM, Vaz MÁ, Balañá C, Gil-Gil M, Reynés G, Gallego Ó, Martínez-García M, Vicente E, Quindós M, Luque R, Ramos A, Ruano Y, Pérez-Segura P, Benavides M, Sánchez-Gómez P, Hernández-Lain A. Phase II trial of dacotinib, a pan-human EGFR tyrosine kinase inhibitor, in recurrent glioblastoma patients with EGFR amplification. *Neuro-Oncology*. 2017;19:1522-31. IF: 7.786. Article.
- Martín-Hernández E, García-Silva MT, Quijada-Fraile P, Rodríguez-García ME, Rivera H, Hernández-Laín A, Coca-Robinot D, Fernández-Toral J, Arenas J, Martín MA, Martínez-Azorín F. Myopathic mtDNA Depletion Syndrome Due to Mutation in TK2 Gene. *Pediatric and Developmental Pathology*. 2017;20:416-20. IF: 1.089. Article.
- Lora D, Gómez de la Cámara A, Fernández SP, Enríquez de Salamanca R, Gómez JFPR. Prognostic models for locally advanced cervical cancer: external validation of the published models. *Journal of Gynecologic Oncology*. 2017;28(5):e58. IF: 3.140. Article.
- Henning F, Cunningham CA, Martín MA, Rubio JC, Arenas J, Lucia A, Hernández-Laín A, Kohn TA. Muscle Fiber Type Proportion and Size is Not Altered in Mcardle Disease. *Muscle & Nerve*. 2017;55:916-8. IF: 2.605. Article.
- Capellades J, Teixidor P, Villalba G, Hostalot C, Plans G, Armengol R, Medrano S, Estival A, Luque R, Gonzalez S, Gil-Gil M, Villa S, Sepulveda J, García-Mosquera JJ, Balana C. Results of a multicenter survey showing interindividual

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

variability among neurosurgeons when deciding on the radicality of surgical resection in glioblastoma highlight the need for more objective guidelines. *Clinical & Translational Oncology*. 2017;19:727-34. IF: 2.353. Article.

- Muñoz Amat B, Vázquez Román S, Gallego Herrero C, Núñez-Enamorado N, Toldos González Ó, Pallás Alonso CR. A Preterm Newborn With the "Barrel Syndrome". *Pediatric Neurology*. 2017;71:8-13. IF: 2.018. Article.
- Sepúlveda-Sánchez JM, Conde-Moreno A, Barón M, Pardo J, Reynés G, Belenguer A. Efficacy and tolerability of lacosamide for secondary epileptic seizures in patients with brain tumor: A multicenter, observational retrospective study. *Oncology Letters*. 2017;13:4093-100. IF: 1.390. Article.
- Capper D, von Deimling A, Brandes AA, Carpentier AF, Kesari S, Sepulveda-Sánchez JM, Wheeler HR, Chinot O, Cher L, Steinbach JP, Specenier P, Rodon J, Cleverly A, Smith C, Gueorguieva I, Miles C, Guba SC, Desaiha D, Estrem ST, Lahn MM, Wick W. Biomarker and Histopathology Evaluation of Patients with Recurrent Glioblastoma Treated with Galunisertib, Lomustine, or the Combination of Galunisertib and Lomustine 2017. *International Journal of Molecular Sciences*. 2017;18(5). pii: E995. IF: 3.226. Article.
- Herraiz I, Simón E, Toldos Ó, Rodríguez Y, Gómez-Arriaga PI, Galindo A. Angiogenesis-related biomarkers (sFlt-1/PIGF) in placental mesenchymal dysplasia. *Journal of Maternal-Fetal & Neonatal Medicine*. 2017;30:958-61. IF: 1.826. Article.
- Ayuso JM, Monge R, Martínez-González A, Virumbrales Muñoz M, Llamazares GA, Berganzo J, Hernández-Lain A, Santolaria J, Doblaré M, Hubert C, Rich JN, Sánchez-Gómez P, Pérez-García VM, Ochoa I, Fernández LJ. Glioblastoma on a microfluidic chip: Generating pseudopalisades and enhancing aggressiveness through blood vessel obstruction events. *Neuro-Oncology*. 2017;19:503-13. IF: 7.786. Article.
- Riveiro-Falkenbach E, Ruano Y, García-Martín RM, Lora D, Cifdaloz M, Acquadro F, Ballestin C, Ortiz-Romero PL, Soengas MS, Rodríguez-Peralto JL. DEK oncogene is

overexpressed during melanoma progression. *Pigment Cell & Melanoma Research*. 2017;30:194-202. IF: 5.170. Article.

- Martin Jimenez M, Calvo Ferrandiz A, Aparicio Urtasun J, Garcia-Campelo R, Gonzalez-Flores E, Lazaro Quintela M, Muñoz Mateu M, Rodriguez Sanchez CA, Santaballa Bertran A, Sepulveda Sanchez JM, Vera Garcia R, Virizuela Echaburu JA, Segui Palmer MA. New clinical trials regulation in Spain: analysis of royal decree 1090/2015. *Clinical & Translational Oncology*. 2017;19:291-300. IF: 2.353. Article.
- Hilario A, Sepulveda JM, Hernandez-Lain A, Salvador E, Koren L, Manneh R, Ruano Y, Perez-Nuñez A, Lagares A, Ramos A. Leakage decrease detected by dynamic susceptibility-weighted contrast-enhanced perfusion MRI predicts survival in recurrent glioblastoma treated with bevacizumab. *Clinical & Translational Oncology*. 2017;19:51-7. IF: 2.353. Article.
- Cicuendez M, Castaño-León A, Ramos A, Hilario A, Gómez PA, Lagares A. Prognostic value of corpus callosum injuries in severe head trauma. *Acta Neurochirurgica*. 2017;159:25-32. IF: 1.881. Article.
- Garcia-Donas J, Leon LA, Esteban E, Vidal-Mendez MJ, Arranz JA, Garcia Del Muro X, Basterretxea L, Gonzalez Del Alba A, Climent MA, Virizuela JA, Alvarez C, Sepulveda J, Anido U, Lopez C, Ortiz-Morales MJ, Perez X, Rodriguez-Antona C, Rodriguez-Moreno JF, Hernando S, Castellano D. A Prospective Observational Study for Assessment and Outcome Association of Circulating Endothelial Cells in Clear Cell Renal Cell Carcinoma Patients Who Show Initial Benefit from First-line Treatment. The CIRCLES (CIRCulating Endothelial cells) Study (SOGUG-CEC-2011-01). *European Urology Focus*. 2017;3:430-6. IF: N/A. Article.
- Zurita Prada PA, Faré García R, Urrego Laurín CL, Pérez Toledo R, Tabernero García C, Hernández Laín A. Calf pseudohypertrophy. *Reumatología Clinica*. 2017;13:173-5. IF: N/A. Article.
- González-Billalabeitia E, Sepúlveda JM, Maroto P, Aparicio J, Arranz JA, Esteban E, Gironés R, López-

Brea M, Mendez-Vidal MJ, Pinto A, Sastre J, de Prado DS, Terrasa J, Vázquez S, Powles T, Beyer J, Castellano D, Del Muro XG; Spanish Germ Cell Cancer Group and the Spanish Oncology Genitourinary Group. Consensus Recommendations from the Spanish Germ Cell Cancer Group on the Use of High-dose Chemotherapy in Germ Cell Cancer. *European Urology Focus*. 2017;3:280-6. IF: N/A. Article.

- Balana C, Estival A, Pineda E, Sepulveda J, Mesia C, del Barco S, Gil-Gil M, Hardy M, Indacochea A, Cardona AF. Prolonged survival after bevacizumab rechallenge in glioblastoma patients with previous response to bevacizumab. *Neuro-Oncology Practice*. 2017;4:15-23. IF: N/A. Article.
- Panero I, Eiriz C, Lagares A, Toldos O, Panero A, Paredes I. Intradural-Extramedullary Capillary Hemangioma with Acute Bleeding: Case Report and Literature Review. *World Neurosurgery*. 2017;108:988.e7-988.e14. IF: 2.592. Review.
- Bellusci M, Quijada-Fraile P, Barrio-Carreras D, Martin-Hernandez E, Garcia-Silva M, Merinero B, Perez B, Hernandez-Lain A. Carnitine palmitoyltransferase 1A deficiency: abnormal muscle biopsy findings in a child presenting with Reye's syndrome. *Journal of Inherited Metabolic Disease*. 2017;40:751-2. IF: 3.970. Editorial Material.
- Garzo-Caldas N, Ruiz-Sainz E, Vila-Bedmar S, Llamas-Velasco S, Hernández-Lain A, Ruiz-Morales J, Folgueira-

López D, Villarejo-Galende A. Enteroviral T-Cell Encephalitis Related to Immunosuppressive Therapy Including Rituximab. *Neurology*. 2017;89:408-9. IF: 7.592. Editorial Material.

- Hernández-Laín A, Esteban-Pérez J, Montenegro DC, Domínguez-González C. Myosin myopathy with external ophthalmoplegia associated with a novel homozygous mutation in MYH2. *Muscle & Nerve*. 2017;55:8-10. IF: 2.605. Editorial Material.
- Barragán-Martínez D, Simarro-Díaz A, Calleja-Castaño P, Hernández-Laín A, Ramos-González A, Villarejo-Galende A. Delayed Tacrolimus Leukoencephalopathy, a Rare and Reversible Cause of Dementia. *Neurology-Neuroimmunology & Neuroinflammation*. 2017;4(2):e319. IF: N/A. Editorial Material.
- López-Blanco R, de Fuenmayor-Fernández de la Hoz CP, González de la Aleja J, Martínez-Sánchez P, Ruiz-Morales J. Hyperammonemic encephalopathy associated with multiple myeloma. *Neurologia*. 2017;32:339-41. IF: 2.103. Letter.
- Gomez-Gonzalez C, Esteban-Rodriguez MI, Ruano Y, Vallespin E, Lapunzina P, Martinez P, Pascual SI, Molano J, Prior C. Molecular Diagnosis of Limb-girdle Muscular Dystrophy Type 2A by Next-generation Sequencing. *Annals of Indian Academy of Neurology*. 2017;20:164-5. IF: 0.950. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Ana Ortiz de Mendivil Arrate
Title: Evaluación radiológica de las metástasis cerebrales tratadas con radiocirugía.
Director/s: Ana Ramos González
Date Defended: 03/01/2017
University: Universidad CEU San Pablo

CUTANEOUS ONCOLOGY

GROUP DIRECTOR

Rodríguez Peralto, José Luis

RESEARCH

GROUP MEMBERS

Blanco García Leyla, Patricia
Cubo Martínez, Rocío
Enguita Valls, Ana Belén
García Martín, Rosa Mª
Garrido Ruiz, Mª Concepción
Maroñas Jiménez, Lidia

Maroto Pérez, Alicia
Monsálvez Honrubia, Verónica
Onteniente Gomis, Mª del Mar
Ortiz Romero, Pablo Luis
Postigo Llorente, Concepción
Riveiro Meireles, Érica

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	AECC	2
Noncompetitive	Various	5
TOTAL		9

- 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, extended to 30/06/2019
- 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: 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)

- Title: Construcción de un panel de marcadores diagnósticos para lesiones melanocíticas e identificación de nueva diana terapéutica en melanoma.

Principal Investigator: Érica Riveiro Meireles
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)
Start date: 01/09/2012
End date: 31/08/2015, extended to 31/10/2017

- Title: Estudio de la evolución de los CTDNA en biopsia líquida en pacientes con tumor de pulmón de nuevo diagnóstico mediante el KIT CLART® CMA EGFR

Principal Investigator: José Luis Rodríguez Peralto
Funding Body: Genomica, S.A.U.
Start date: 30/01/2017
End date: 30/06/2018

- Title: Implementación clínica de la caracterización genómica múltiple en la valoración inicial de pacientes con cáncer no microcítico de pulmón avanzado mediante técnicas de ultrasecuenciación masiva (NGS).

Principal Investigator: José Luis Rodríguez Peralto
Funding Body: AstraZeneca
Start date: 22/06/2017
End date: 21/06/2020

- 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: 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, extended to 24/04/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	22	170.419
Reviews	1	6.029
Editorials	5	15.110
Total	28	191.558
Letters	10	20.635
Total	38	212.193

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Cifdaloz M, Osterloh L, Graña O, Riveiro-Falkenbach E, Ximénez-Eembún P, Muñoz J, Tejedo C, Calvo TG, Karras P, Olmeda D, Miñana B, Gómez-López G, Cañón E, Eyras E, Guo H, Kappes F, Ortiz-Romero PL, Rodríguez-Peralto JL, Megías D, Valcárcel J, Soengas MS. Systems analysis identifies melanoma-enriched pro-oncogenic networks controlled by the RNA binding protein CELF1. *Nature Communications*. 2017;8:2249. IF: 12.124. Article.
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- Prieto-Barrios M, Castellanos-González M, Velasco-Tamariz V, Burillo-Martínez S, Morales-Raya C, Ortiz-Romero P, Rivera-Díaz R. Two poles of the Th 17-cell-mediated disease spectrum: Analysis of a case series of 21 patients with concomitant lupus erythematosus and psoriasis. *Journal of the European Academy of Dermatology and Venereology*. 2017;31:233-6. IF: 3.528. Letter.
- 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
- **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

THORACIC AND CLINICAL-TRANSLATIONAL ONCOLOGY

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ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	Fundación Mutua Madrileña	4
Competitive	AECC	1
Noncompetitive	Various	9
TOTAL		17

- Title: Discovery, validation and implementation of biomarkers for precision oncology.
 Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
 Project No.: PIE15/00076
 Funding Body: Instituto de Salud Carlos III (ISCIII)
 Start date: 01/01/2016
 End date: 31/12/2018
 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 (FMM)
 Start date: 21/10/2014
 End date: 20/10/2016, extended to 30/09/2017
- Title: Interacción de la Interleukina 11 (IL11) con el microambiente tumoral en el adenocarcinoma de pulmón, y estudio de su inhibición como estrategia terapéutica.
 Principal Investigator: Irene Ferrer Sánchez
 Project No.: PI16/01311
 Funding Body: Instituto de Salud Carlos III (ISCIII)
 Start date: 01/01/2017
 End date: 31/12/2019
 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 (FMM)
 Start date: 28/09/2013
 End date: 27/09/2016, extended to 24/09/2017
- 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, extended to 30/06/2018
 Start date: 21/10/2014
 End date: 20/10/2016, extended to 30/09/2017
- Title: Estudio prospectivo de biomarcadores de respuesta a quimioterapia basada en platino y pemetrexed en primera línea de carcinoma no escamoso de pulmón estadio IV.
 Principal Investigator: Juan Antonio Núñez Sobrino
 Project No.: FMM 2013/0074
 Funding Body: Fundación Mutua Madrileña (FMM)
 Start date: 19/09/2013
 End date: 18/09/2015, extended to 30/09/2017
 Start date: 21/10/2014
 End date: 20/10/2016, extended to 30/09/2017
- 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 (FMM)
 Start date: 16/05/2016
 Start date: 21/10/2014
 End date: 20/10/2016, extended to 30/09/2017
- Title: Papel de la vía de IL-11 en la tumorigénesis y su

- possible utilidad como diana terapéutica en el adenocarcinoma de pulmón.
- Principal Investigator: Irene Ferrer Sánchez
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)
Start date: 01/12/2015
End date: 30/11/2020
- Title: Comprehensive molecular and immune characterization of non-small-cell lung cancer (NSCLC) as foundation for tailored immunotherapy approaches.
Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Funding Body: Bristol
Start date: 20/12/2017
End date: 31/12/2022
- Title: Medición de la biología de los telómeros en muestras clínicas: desarrollo de nuevos biomarcadores para la detección temprana del cáncer de pulmón.
Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Funding Body: Life Length, S.L.
Start date: 10/02/2017
End date: 09/02/2019
- 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, extended to 31/03/2018
- 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, extended to 28/06/2018

- 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 traslocaciones 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: Proyecto para determinar traslocaciones 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: Amgen, S.A.
Start date: 10/03/2016
End date: 30/07/2018
- 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

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	31	425.876
Reviews	7	90.125
Total	38	516.001
Letters	1	0.917
Total	39	516.918

- Mok TSK, Kim SW, Wu YL, Nakagawa K, Yang JJ, Ahn MJ, Wang J, Yang JC, Lu Y, Atagi S, Ponce S, Shi X, Rukazakov Y, Haddad V, Thress KS, Soria JC. Gefitinib Plus Chemotherapy Versus Chemotherapy in Epidermal Growth Factor Receptor Mutation-Positive Non-Small-Cell Lung Cancer Resistant to First-Line Gefitinib (IMPOWER): Overall Survival and Biomarker Analyses. *Journal of Clinical Oncology*. 2017;35:4027-34. IF: 24.008. Article.
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*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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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THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Asunción Díaz Serrano
Title: Caracterización molecular del cáncer gástrico HER2 positivo y su aplicabilidad práctica para el tratamiento personalizado del cáncer gástrico.
Director/s: Luis Gonzaga Paz-Ares Rodríguez, Carlos Gómez Martín
Date Defended: 03/01/2017
University: Universidad Complutense de Madrid

PATENTS

- **Title:** Combinación de fármacos ANTI-EGFR y ANTI-FGFR para uso en el tratamiento de tumores de pulmón.
Number: P201730928.
Type: Spanish.
Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).
Date of application: 13/07/2017
- **Title:** Inhibidores de FGFR para uso en el tratamiento del cáncer de pulmón.
Number: P201730929.
Type: Spanish.
Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).
Date of application: 13/07/2017

- 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

PRIZES AND AWARDS

- Premio Fundación Lilly Investigación Biomédica Clínica, 2017
Prize winner: Luis Gonzaga Paz-Ares Rodríguez.
- Premio Internacional de Investigación Oncológica Ramiro Carregal, 2017
Prize winner: Luis Gonzaga Paz-Ares Rodríguez.

- Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.

Number: P201531891.

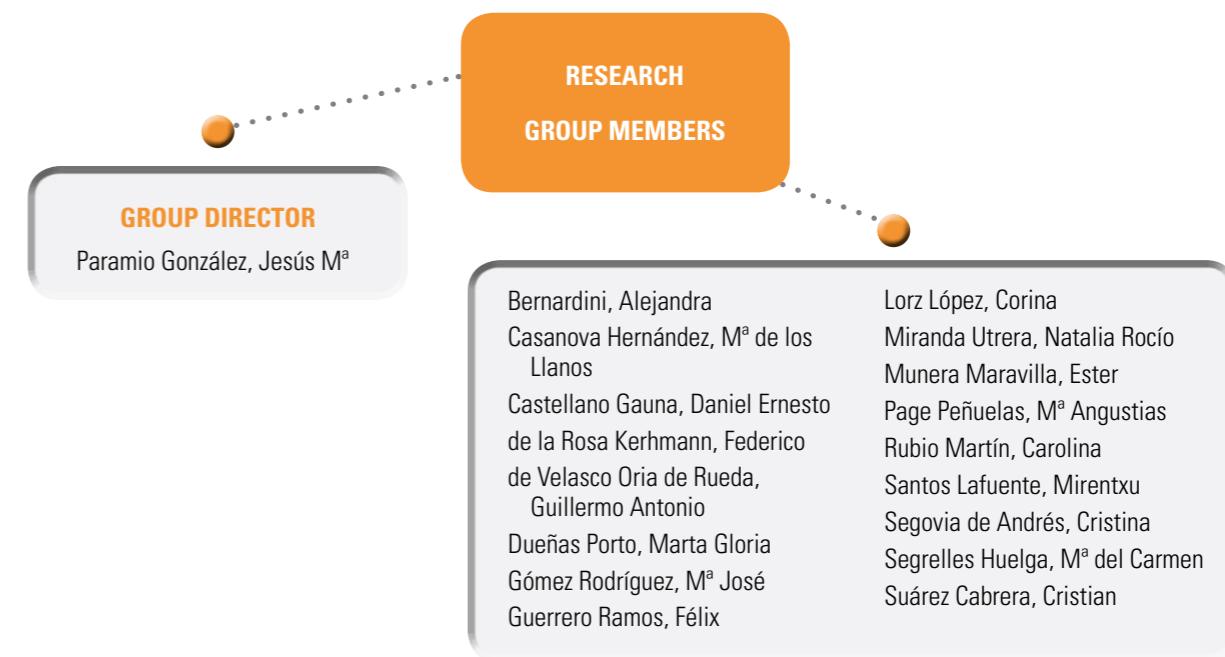
Type: Spanish.

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

GENITOURINARY AND CELLULAR AND MOLECULAR ONCOLOGY



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Noncompetitive	Various	3
TOTAL		3

- Title: Hormonoterapia en cáncer de mama y próstata, situación actual y perspectivas futuras.
Principal Investigator: Daniel Ernesto Castellano Gauna
Funding Body: AstraZeneca AB
Start date: 07/07/2014
End date: 06/07/2017

- Title: Unidad Multidisciplinar de Urooncología.
Principal Investigator: Daniel Ernesto 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 Ernesto Castellano Gauna

Funding Body: Astellas Pharma, S.A.
Start date: 16/10/2015
End date: 15/10/2017

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: Discovery, Validation and Implementation of Biomarkers for Precision Oncology.
Participating entities: Fundación Instituto de Investigación Marqués de Valdecilla (IDIVAL), Fundación de Investigación Biomédica Hospital de la Princesa, Fundación para la Investigación Biomédica del Hospital Ramón y Cajal, Institut de Recerca Biomèdica de Lleida (IRBLleida), Fundación para la Investigación Biomédica del Hospital 12 de Octubre
Principal Investigator in i+12: Luis Gonzaga Paz-Ares Rodríguez
Project No.: PIE15/00081
Funding Body: Instituto de Salud Carlos III (ISCIII)
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: Mirentxu Santos Lafuente
Project No.: PI15/00993
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 IF (JCR 2016)
Articles	36	364.511
Reviews	4	20.820
Editorials	1	1.167
Total	41	386.498
Letters	1	4.962
Total	42	391.460

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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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THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Cristian Suárez Cabrera
Title: Implicación de nuevas moléculas de la vía de señalización de RAS en el Cáncer de Mama.
Director/s: José Manuel Navarro Espinel, Ángel Ramírez Merino
Date Defended: 24/03/2017
University: Universidad Complutense de Madrid

- **Candidate:** Josefa Pilar Alameda Úbeda-Contreras
Title: Implicación de CYLD en la homeostasis y tumorigénesis de piel y en el envejecimiento.
Director/s: Mª de los Llanos Casanova Hernández
Date Defended: 22/06/2017
University: Universidad Complutense de Madrid

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, 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

BREAST AND GYNECOLOGIC CANCER

GROUP DIRECTOR

Ciruelos Gil, Eva M^a

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Sánchez García, Cristina
Sancho Pérez, Blanca
Sanz Ferrández, M^a Consuelo
Tejerizo García, Álvaro

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	AECC	1
Noncompetitive	Various	2
Total		5

- 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 M^a 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: 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: Comparación de la eficacia antitumoral de cannabinoides aislados frente a preparados completos de la planta.

Principal Investigator: Eduardo Pérez Gómez

Funding Body: Fundación Científica de la Asociación Espa-

ñola Contra el Cáncer (AECC)

Start date: 01/10/2017

End date: 30/09/2019

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

Principal Investigator: Eva M^a Ciruelos Gil

Funding Body: Roche Farma, S.A.

Start date: 22/01/2014

End date: 21/01/2017

- 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-5 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

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

- 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: Anti-tumor effect of cannabinoids in HER2+ and triple negative breast cancer.

Principal Investigator: Cristina Sánchez García

Funding Body: Zelda Therapeutics Pty Ltd.

Start date: 01/01/2015

End date: 31/12/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	19	103.335
Total	19	103.335

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- Díaz-Alonso J, de Salas-Quiroga A, Paraíso-Luna J, García-Rincón D, Garcez PP, Parsons M, Andradas C, Sánchez C, Guillermot F, Guzmán M, Galve-Roperh I. Loss of Cannabinoid CB1 Receptors Induces Cortical Migration Malformations and Increases Seizure Susceptibility. *Cerebral Cortex*. 2017;27:5303-17. IF: 6.559. Article.
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- Jiménez-Heffernan JA, Freih Fraih A, Álvarez F, Bárcena C, Corbacho C. Cytologic Features of Pleomorphic Xanthoastrocytoma, WHO Grade II. A Comparative Study with Glioblastoma. *Diagnostic Cytopathology*. 2017;45:339-44. IF: 1.161. Article.
- Fernandez-Martinez A, Pascual T, Perrone G, Morales S, de la Haba J, González-Rivera M, Galván P, Zalfa F, Amato M, Gonzalez L, Prats M, Rojo F, Manso L, Paré L, Alonso I, Albanell J, Vivancos A, González A, Matito J, González S, Fernandez P, Adamo B, Muñoz M, Viladot M, Font C, Aya F, Vidal M, Caballero R, Carrasco E, Altomare V, Tonini G, Prat A, Martin M. Limitations in predicting PAM50 intrinsic subtype and risk of relapse score with Ki67 in estrogen receptor-positive HER2-negative breast cancer. *Oncotarget*. 2017;8:21930-7. IF: 5.168. Article.
- Quintela-Fandino M, Soberón N, Lluch A, Manso L, Calvo I, Cortes J, Moreno-Antón F, Gil-Gil M, Martínez-Jáñez N, Gonzalez-Martin A, Adrover E, de Andres R, Viñas G, Llobart-Cussac A, Alba E, Mouron S, Guerra J, Bermejo B, Zamora E, García-Saenz JA, Simon SP, Carrasco E, Escudero MJ, Campo R, Colomer R, Blasco MA. Critically short telomeres and toxicity of chemotherapy in early breast cancer. *Oncotarget*. 2017;8:21472-82. IF: 5.168. Article.
- Suárez-Cabrera C, Quintana RM, Bravo A, Casanova ML, Page A, Alameda JP, Paramio JM, Maroto A, Salamanca J, Dupuy AJ, Ramírez A, Navarro M. A Transposon-based Analysis Reveals RASA1 Is Involved in Triple-Negative Breast Cancer. *Cancer Research*. 2017;77:1357-68. IF: 9.122. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Cristian Suárez Cabrera
Title: Implicación de nuevas moléculas de la vía de señalización de RAS en el Cáncer de Mama.
Director/s: José Manuel Navarro Espinel, Ángel Ramírez Merino
Date Defended: 24/03/2017
University: Universidad Complutense de Madrid
- Candidate:** Mª Victoria Bravo Violeta
Title: Manejo conservador de lesiones cervicales de alto grado en mujeres jóvenes. Estudio longitudinal prospectivo.
Director/s: Jesús Salvador Jiménez López, Álvaro Tejerizo García, Gregorio López González
Date Defended: 25/04/2017
University: Universidad Complutense de Madrid
- Candidate:** Mª de los Reyes Oliver Pérez
Title: Impacto de la afectación del espacio linfovascular en el pronóstico del carcinoma de endometrio: factores asociados y estratificación de riesgo.
Director/s: Álvaro Tejerizo García, Jesús Salvador Jiménez López

- Date Defended:** 25/04/2017
University: Universidad Complutense de Madrid
- Candidate:** Mª Victoria Bravo Violeta
Title: Manejo conservador de lesiones cervicales de alto grado en mujeres jóvenes. Estudio longitudinal prospectivo.
Director/s: Jesús Salvador Jiménez López, Álvaro Tejerizo García, Gregorio López González
Date Defended: 25/04/2017
University: Universidad Complutense de Madrid

DIGESTIVE CANCER**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	Fundación Mutua Madrileña	3
Noncompetitive	Various	2
Total		9

- Title: Activación de SRC en cáncer colorectal: estudio funcional y utilidad como biomarcador en la clínica.
Principal Investigator: Rocío García Carbonero
Project No.: PI16/01650
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- 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)
- Title: Estudio clínico y molecular del complejo Nomo / Nicalina / Temem147 y la vía nodal en cáncer colorrectal.
Principal Investigator: José Perea García

Start date: 01/01/2014

End date: 31/12/2016, extended to 30/06/2017

- Title: Validación de tecnologías de predicción de respuesta al tratamiento con quimioterapia en carcinoma colorectal 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: 30/09/2018
- 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 (FMM)
Start date: 20/07/2013
End date: 19/05/2015, extended to 31/07/2017
- 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 (FMM)

Start date: 27/07/2013

End date: 26/07/2015, extended to 30/09/2018

- 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 (FMM)
Start date: 05/12/2012
End date: 04/12/2014, extended to 30/03/2017
- Title: Subestudio de biomarcadores asociados al ensayo clínico phase II/III randomized, double-blind study of Sandoz 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 Neuroendocrinos
Start date: 17/10/2016
End date: 16/10/2021
- 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

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	28	133.220
Reviews	4	16.298
Total	32	149.518
Letters	1	3.014
Total	33	152.532

- Ovarian Tumor Tissue Analysis (OTTA) Consortium, Goode EL, Block MS, Kallik KR, Vierkant RA, Chen W, Fogarty ZC, Gentry-Maharaj A, Toloczko A, Hein A, Bouliigny AL, Jensen A, Osorio A, Hartkopf AD, Ryan A, Chudecka-Glaz A, Magliocco AM, Hartmann A, Jung AY, Gao B, Hernandez BY, Fridley BL, McCauley BM, Kennedy CJ, Wang C, Karpinskyj C, de Sousa CB, Tiezzi DG, Wachter DL, Herpel E, Taran FA, Modugno F, Nelson G, Lubinski J, Menkiszak J, Alsop J, Lester J, García-Donas J, Nation J, Hung J, Palacios J, Rothstein JH, Kelley JL, de Andrade JM, Robles-Díaz L, Intermaggio MP, Widschwendter M, Beckmann MW, Ruebner M, Jimenez-Linan M, Singh N, Oszurek O, Harnett PR, Rambau PF, Sinn P, Wagner P, Ghatare P, Sharma R, Edwards RP, Ness RB, Orsulic S, Brucker SY, Johnatty SE, Longacre TA, Eilber U, McGuire V, Sieh W, Natanzon Y, Li Z, Whittemore AS, deFazio A, Staebler A, Karlan BY, Gilks B, Bowtell DD, Høgdall E, Candido Dos Reis FJ, Steed H, Campbell IG, Gronwald J, Benítez J, Koziak JM, Chang-Claude J, Moysich KB, Kelemen LE, Cook LS, Goodman MT, García MJ, Fasching PA, Kommooss S, Deen S, Kjaer SK, Menon U, Brenton JD, Pharoah PDP, Chenevix-Trench G, Huntsman DG, Winham SJ, Köbel M, Ramus SJ. Dose-Response Association of CD8(+) Tumor-Infiltrating Lymphocytes and Survival Time in High-Grade Serous Ovarian Cancer. *JAMA Oncology*. 2017;3(12):e173290. IF: 16.559. Article.
- Lorca V, Rueda D, Martín-Morales L, Poves C, Fernández-Aceñero MJ, Ruiz-Ponte C, Llovet P, Marrupe D, García- Barberán V, García-Paredes B, Pérez-Segura P, de la Hoya M, Díaz-Rubio E, Caldés T, Garre P. Role of GALNT12 in the genetic predisposition to attenuated adenomatous polyposis syndrome. *PLoS One*. 2017;12(11):e0187312. IF: 2.806. Article.
- Riesco-Martínez MC, Sanchez-Torre A, Garcia-Carbonero R. Safety and efficacy of nintedanib for the treatment of metastatic colorectal cancer. *Expert Opinion on Investigational Drugs*. 2017;26:1295-305. IF: 4.030. Article.
- García-Carbonero R, van Cutsem E, Rivera F, Jassem J, Gore I, Tebbutt N, Braiteh F, Argiles G, Wainberg ZA, Funke R, Anderson M, McCall B, Stroh M, Wakshull E, Hegde P, Ye W, Chen D, Chang I, Rhee I, Hurwitz H. Randomized Phase II Trial of Parsatuzumab (Anti-EGFL7) or Placebo in Combination with FOLFOX and Bevacizumab for First-Line Metastatic Colorectal Cancer. *Oncologist*. 2017;22:1281. IF: 4.962. Article.
- Santos C, Azuara D, Garcia-Carbonero R, Alfonso PG, Carrato A, Elez ME, Gomez A, Losa F, Montagut C, Massuti B, Navarro V, Varela M, Lopez-Doriga A, Moreno V, Valladares M, Manzano JL, Vieitez JM, Aranda E, Sanjuan X, Tabernero J, Capella G, Salazar R. Optimization of RAS/BRAF Mutational Analysis Confirms Improvement in Patient Selection for Clinical Benefit to Anti-EGFR Treatment in Metastatic Colorectal Cancer. *Molecular Cancer Therapeutics*. 2017;16:1999-2007. IF: 5.764. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Perez JM, Lopez-Calderero I, Saez C, Benavent M, Limon ML, Gonzalez-Exposito R, Soldevilla B, Riesco-Martinez MC, Salamanca J, Carnero A, Garcia-Carbonero R. Prognostic relevance of Src activation in stage II-III colon cancer. *Human Pathology*. 2017;67:119-25. IF: 3.014. Article.
- Cohn AL, Yoshino T, Heinemann V, Obermannova R, Bodoky G, Prausová J, Garcia-Carbonero R, Ciuleanu T, Garcia-Alfonso P, Portnoy DC, Van Cutsem E, Yamazaki K, Clingen PR, Polikoff J, Lonardi S, O'Brien LM, Gao L, Yang L, Ferry D, Nasrullah F, Tabernero J. Exposure-response relationship of ramucirumab in patients with advanced second-line colorectal cancer: exploratory analysis of the RAISE trial. *Cancer Chemotherapy and Pharmacology*. 2017;80:599-608. IF: 2.737. Article.
- Pellicer M, García-González X, García MI, Blanco L, Grávalos C, García-Alfonso P, Pachón V, Longo F, Martínez V, Blanco C, Iglesias I, Sanjurjo M, López-Fernández LA. Identification of new SNPs associated with severe toxicity to capecitabine. *Pharmacological Research*. 2017;120:133-7. IF: 4.480. Article.
- Hidalgo M, Alvarez R, Gallego J, Guillen-Ponce C, Laquente B, Macarulla T, Munoz A, Salgado M, Vera R, Adeva J, Ales I, Arevalo S, Blazquez J, Calsina A, Carmona A, de Madaria E, Diaz R, Diez L, Fernandez T, de Paredes BG, Gallardo ME, Gonzalez I, Hernando O, Jimenez P, Lopez A, Lopez C, Lopez-Rios F, Martin E, Martinez J, Martinez A, Montans J, Pazo R, Plaza JC, Peiro I, Reina JJ, Sanjuanbenito A, Yaya R, Carrato A. Consensus guidelines for diagnosis, treatment and follow-up of patients with pancreatic cancer in Spain. *Clinical & Translational Oncology*. 2017;19:667-81. IF: 2.353. Article.
- Custodio A, Carmona-Bayonas A, Jiménez-Fonseca P, Sánchez ML, Viudez A, Hernández R, Cano JM, Echavarria I, Pericay C, Mangas M, Visa L, Buxo E, García T, Rodríguez Palomo A, Álvarez Manceñido F, Lacalle A, Macias I, Azkarate A, Ramchandani A, Fernández Montes A, López C, Longo F, Sánchez Bayona R, Limón ML, Díaz-Serrano A, Hurtado A, Madero R, Gómez C, Gallego J. Nomogram-based prediction of survival in patients with advanced oesophagogastric adenocarcinoma receiving first-line chemotherapy: a multicenter prospective study in the era of trastuzumab. *British Journal of Cancer*. 2017;116:1526-35. IF: 6.176. Article.
- Soldevilla B, Cuevas-Martín C, Ibáñez C, Santacatterina F, Alberti MA, Simó C, Casasnovas C, Márquez-Infante C, Sevilla T, Pascual SI, Sánchez-Aragó M, Espinos C, Palau F, Cuevza JM. Plasma metabolome and skin proteins in Charcot-Marie-Tooth 1A patients. *PLoS One*. 2017;12(6):e0178376. IF: 2.806. Article.
- Yoshino T, Obermannová R, Bodoky G, Garcia-Carbonero R, Ciuleanu T, Portnoy DC, Kim TW, Hsu Y, Ferry D, Nasrullah F, Tabernero J. Baseline carcinoembryonic antigen as a predictive factor of ramucirumab efficacy in RAISE, a second-line metastatic colorectal carcinoma phase III trial. *European Journal of Cancer*. 2017;78:61-9. IF: 6.029. Article.
- Tumors: Biochemical Markers. *Neuroendocrinology*. 2017;105:201-11. IF: 3.608. Article.
- Garcia-Carbonero R, Rinke A, Valle JW, Fazio N, Caplin M, Gorbounova V, O'Connor J, Eriksson B, Sorbye H, Kulke M, Chen J, Falkerby J, Costa F, de Herder W, Lombard-Bohas C, Pavel M; all other Antibes Consensus Conference participants. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Neoplasms: Systemic Therapy – Chemotherapy. *Neuroendocrinology*. 2017;105:281-94. IF: 3.608. Article.
- García-Carbonero R, van Cutsem E, Rivera F, Jassem J, Gore I, Tebbutt N, Braiteh F, Argiles G, Wainberg ZA, Funke R, Anderson M, McCall B, Stroh M, Wakshull E, Hegde P, Ye W, Chen D, Chang I, Rhee I, Hurwitz H. Randomized Phase II Trial of Parsatuzumab (Anti-EGFL7) or Placebo in Combination with FOLFOX and Bevacizumab for First-Line Metastatic Colorectal Cancer. *Oncologist*. 2017;22:375-e30. IF: 4.962. Article.
- Sundin A, Arnold R, Baudin E, Cwikla JB, Eriksson B, Fanti S, Fazio N, Giammarile F, Hicks RJ, Kjaer A, Krenning E, Kwekkeboom D, Lombard-Bohas C, O'Connor JM, O'Toole D, Rockall A, Wiedenmann B, Valle JW, Vullierme MP; Antibes Consensus Conference participants. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Radiological, Nuclear Medicine and Hybrid Imaging. *Neuroendocrinology*. 2017;105:212-44. IF: 3.608. Article.
- Arriba M, Sanchez R, Rueda D, Gomez L, Garcia JL, Rodriguez Y, Pajares JA, Perez J, Urioste M, Gonzalez Sarmiento R, Perea J. Toward a Molecular Classification of Synchronous Colorectal Cancer: Clinical and Molecular Characterization. *Clinical Colorectal Cancer*. 2017;16:31-7. IF: 4.507. Article.
- Partelli S, Bartsch DK, Capdevila J, Chen J, Knigge U, Niederle B, Nieveen van Dijkum EJM, Pape UF, Pascher A, Ramage J, Reed N, Ruszniewski P, Scoazec JY, Toumpanakis C, Kianmanesh R, Falconi M; Antibes Consensus Conference participants. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumours: Surgery for Small Intestinal and Pancreatic Neuroendocrine Tumours. *Neuroendocrinology*. 2017;105:245-54. IF: 3.608. Article.
- Pavel M, Valle JW, Eriksson B, Rinke A, Caplin M, Chen Tumours. *Neuroendocrinology*. 2017;105:255-65. IF: 3.608. Article.
- Knigge U, Capdevila J, Bartsch DK, Baudin E, Falkerby J, Kianmanesh R, Kos-Kudla B, Niederle B, Nieveen van Dijkum E, O'Toole D, Pascher A, Reed N, Sundin A, Vullierme MP; Antibes Consensus Conference participants. ENETS Consensus Recommendations for the Standards of Care in Neuroendocrine Neoplasms: Follow-Up and Documentation. *Neuroendocrinology*. 2017;105:310-9. IF: 3.608. Article.
- Perren A, Couvelard A, Scoazec JY, Costa F, Borbath I, Delle Fave G, Gorbounova V, Gross D, Grossma A, Jense RT, Kulke M, Oeberg K, Rindi G, Sorbye H, Welin S; Antibes Consensus Conference participants. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Pathology-Diagnosis and Prognostic Stratification. *Neuroendocrinology*. 2017;105:196-200. IF: 3.608. Article.
- Garcia-Carbonero R, Vera R, Rivera F, Parlorio E, Pages M, Gonzalez-Flores E, Fernandez-Martos C, Corral MA, Bouzas R, Matute F. SEOM/SERAM consensus statement on radiological diagnosis, response assessment and follow-up in colorectal cancer. *Clinical & Translational Oncology*. 2017;19:135-48. IF: 2.353. Article.
- Arriba M, Garcia JL, Rueda D, Perez J, Brandariz L, Nutu OA, Alonso L, Rodriguez Y, Urioste M, Gonzalez-Sarmiento R, Perea J. Unsupervised Analysis of Array Comparative Genomic Hybridization Data from Early-Onset Colorectal Cancer Reveals Equivalence with Molecular Classification and Phenotypes. *Neoplasia*. 2017;19:28-34. IF: 5.006. Article.
- Kaltsas G, Caplin M, Davies P, Ferone D, Garcia-Carbonero R, Grozinsky-Glasberg S, Horsch D, Janson ET, Kianmanesh R, Kos-Kudla B, Pavel M, Rinke A, Falconi M, de Herder WW; All Other Antibes Consensus Conf. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Tumors: Pre- and Perioperative Therapy in Patients with Neuroendocrine Tumors. *Neuroendocrinology*. 2017;105:245-54. IF: 3.608. Article.
- Pavel M, Valle JW, Eriksson B, Rinke A, Caplin M, Chen

- J, Costa F, Falkerby J, Fazio N, Gorbounova V, de Herder W, Kulke M, Lombard-Bohas C, O'Connor J, Sorbye H, Garcia-Carbonero R; All Other Antibes Consensus Conf. ENETS Consensus Guidelines for the Standards of Care in Neuroendocrine Neoplasms: Systemic Therapy - Biotherapy and Novel Targeted Agents. *Neuroendocrinology*. 2017; 105:266-80. IF: 3.608. Article.
- German-Diaz M, Rodriguez-Gil Y, Cruz-Rojo J, Charbit-Henrion F, Cerf-Bensussan N, Manzanares-Lopez Manzanares J, Moreno-Villares JM. A New Case of Congenital Malabsorptive Diarrhea and Diabetes Secondary to Mutant Neurogenin-3. *Pediatrics*. 2017 Jul 19. pii: e20162210. IF: 5.705. Article.
- Van Cutsem E, Falcone A, Garcia-Carbonero R, Komatsu Y, Pastorino A, Peeters M, Shimada Y, Yamazaki K, Yoshino T, Zaniboni A, Amellal N, Kanehisa A, Winkler R, Makris L, Mayer RJ, Ohtsu A, Tabernero J. Proxies of quality of life in metastatic colorectal cancer: analyses in the RE COURSE trial. *ESMO Open*. 2017;2(5):e000261. IF: N/A. Article.
- Garcia-Carbonero R, Salazar R, Duran I, Osman-Garcia I, Paz-Ares L, Bozada JM, Boni V, Blanc C, Seymour L, Beadle J, Alvis S, Champion B, Calvo E, Fisher K. Phase 1 study of intravenous administration of the chimeric adenovirus; enadenotucirev in patients undergoing primary tumor resection. *Journal for Immunotherapy of Cancer*. 2017;5:71. IF: N/A. Article.
- Yuste C, Mérida E, Hernández E, García-Santiago A, Rodríguez Y, Muñoz T, Gómez GJ, Sevillano Á, Praga M. Gastrointestinal complications induced by sevelamer crystals. *Clinical Kidney Journal*. 2017;10:539-44. IF: N/A. Article.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Marco Pérez
Title: Xenoinjertos de tumores derivados de pacientes como modelos para la búsqueda de biomarcadores de sensibilidad a fármacos.
Director/s: Amancio Carnero Moya, Rocío García Carbonero
Date Defended: 13/06/2017
University: Universidad de Sevilla
- **Candidate:** Marta Benavent Viñuales
Title: Estudio de polimorfismos de genes implicados en la regulación de la angiogénesis: incidencia y relevancia clínica en tumores neuroendocrinos.
Director/s: M^a de los Ángeles Castilla Moro, Rocío García Carbonero
Date Defended: 22/09/2017
University: Universidad de Sevilla

CHRONIC DISEASES AND TRANSPLANTATION



COORDINATOR: MANUEL PRAGA TERENTE

**Ageing, Neuroimmunology,
and Nutrition**

Respiratory Diseases

**Bone Metabolism,
Diabetes, and Nutrition**

Clinical Nephrology

**Pulmonary Surfactant and
Respiratory Diseases**

Male's Integral Health

Tissue Engineering

Abdominal Organ Transplant

Critical Patient

Kidney Transplant

AGEING, NEUROIMMUNOLOGY AND NUTRITION

RESEARCH GROUP MEMBERS

GROUP DIRECTOR

de la Fuente del Rey, Mónica
Carracedo Añón, Julia M^a

Ceprián Costoso, Noemí
Cruces González, Julia
de la Serna Soto, Mariano
García Martín, Mercedes
Garrido Tarrio, Antonio
González Sánchez, Mónica

Hernández Bolívar, Oskarina
Hunsche, Caroline
Kobayashi García, Hikaru
Martínez de Toda Cabeza, Irene
Mate Otaño, Iainre
Vida Rueda, M^a del Carmen

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- 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	Σ IF (JCR 2016)
Articles	14	61.151
Total	14	61.151

- García-Cárceles J, Decara JM, Vázquez-Villa H, Rodríguez R, Codesido E, Cruces J, Brea J, Loza MI, Alén F, Botta J, McCormick PJ, Ballesteros JA, Benjamú B, Rodríguez de Fonseca F, López-Rodríguez ML. A Positive Allosteric Modulator of the Serotonin 5-HT2c Receptor for Obesity. *Journal of Medicinal Chemistry*. 2017;60:9575-84. IF: 6.259. Article.
- Valencia-Nuñez DM, Kreutler W, Moya-Gonzalez J, Alados-Arboledas P, Muñoz-Carvajal I, Carmona A, Ramírez-Chamond R, Carracedo-Añón J. Endothelial vascular markers in coronary surgery. *Heart and Vessels*. 2017;32:1390-9. IF: 3.434. Article.
- Rancán L, Paredes SD, García I, Muñoz P, García C, López de Hontanar G, de la Fuente M, Vara E, Tresguerres JAF. Protective effect of xanthohumol against age-related brain damage. *Journal of Nutritional Biochemistry*. 2017; 49:133-40. IF: 4.518. Article.
- Díaz-Tocados JM, Peralta-Ramírez A, Rodríguez-Ortiz ME, Raya AI, Lopez I, Pineda C, Herencia C, Montes de Oca A, Vergara N, Steppan S, Pendon-Ruiz de Mier MV, Buendía P, Carmona A, Carracedo J, Alcalá-Díaz JF, Frazao J, Martínez-Moreno JM, Canalejo A, Felsenfeld A, Rodriguez M, Aguilera-Tejero E, Almadén Y, Muñoz-Castañeda JR. Dietary magnesium supplementation prevents and reverses vascular and soft tissue calcifications in uremic rats. *Kidney International*. 2017;92:1084-99. IF: 8.395. Article.
- Mela V, Hernandez O, Hunsche C, Diaz F, Chowen JA, De la Fuente M. Administration of a leptin antagonist during the neonatal leptin surge induces alterations in the redox

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Ardura JA, Portal-Núñez S, Castelbón-Calvo I, Martínez de Toda I, De la Fuente M, Esbrit P. Parathyroid Hormone-Related Protein Protects Osteoblastic Cells from Oxidative Stress by Activation of MKP1 Phosphatase. *Journal of Cellular Physiology*. 2017;232:785-96. IF: 4.080. Article.
- Carmona A, Agüera ML, Luna-Ruiz C, Buendía P, Calleros L, García-Jerez A, Rodríguez-Puyol M, Arias M, Arias-Guillen M, de Arriba G, Ballarin J, Bernis C, Fernández E, García-Rebollo S, Mancha J, Del Peso G, Pérez E, Poch E, Portolés JM, Rodríguez-Puyol D, Sánchez-Villanueva R, Sarro F, Torres A, Martín-Malo A, Aljama P, Ramírez R, Carracedo J. Markers of endothelial damage in patients with chronic kidney disease on hemodialysis. *American Journal of Physiology. Renal Physiology*. 2017;312:F673-F681. IF: 3.611. Article.
- Alique M, Ruiz-Torres MP, Bodega G, Noci MV, Troyano N, Bohórquez L, Luna C, Luque R, Carmona A, Carracedo N/A. Article.

J, Ramírez R. Microvesicles from the plasma of elderly subjects and from senescent endothelial cells promote vascular calcification. *Aging-US*. 2017;9:778-89. IF: 4.867. Article.

- Esquivias-Motta E, Martín-Malo A, Buendía P, Álvarez-Lara MA, Soriano S, Crespo R, Carracedo J, Ramírez R, Aljama P. Hemodiafiltration With Endogenous Reinfusion Improved Microinflammation and Endothelial Damage Compared With Online-Hemodiafiltration: A Hypothesis Generating Study. *Artificial Organs*. 2017;41:88-98. IF: 2.403. Article.
- Garrido A, Cruces J, Iriarte I, Hernández-Sánchez C, de Pablo F, de la Fuente M. Inmunosenescencia prematura en ratones con una deficiencia en la síntesis de catecolaminas. Efecto del ambiente social. *Revista Española de Geriatría y Gerontología*. 2017;52:20-6. IF: N/A. Article.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Julia Cruces González
Title: Cambios conductuales e inmunitarios en el envejecimiento cronológico, prematuro y acelerado. Estrategias para una longevidad saludable.
Director/s: Mónica de la Fuente del Rey
Date Defended: 03/07/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

- Premio Real Academia Nacional de Farmacia en el Concurso Científico 2017.
Report entitled: "Role of microvesicles as biomarkers and future pharmacology targets of cardiovascular diseases".
Authors: Julia Carracedo, Isabel Corpas, Matilde Alique, Rafael Ramírez-Carracedo, Rafael Ramírez.

RESPIRATORY DISEASES



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	4
TOTAL		6

- 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, extended to 30/06/2018
- Title: Utilidad de la oscilometría de impulso en el diagnóstico del asma en una unidad de asma grave.
Principal Investigator: Rocío Magdalena Díaz Campos
Funding Body: Chiesi España, S.A.U.
Start date: 01/07/2017
End date: 31/12/2018
- Title: Diferencias en la rentabilidad diagnóstica de enfermedad pulmonar intersticial difusa entre criobiopsia 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 (FMM)
Start date: 20/07/2013
End date: 19/07/2015, extended to 30/06/2017
- Title: 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, extended to 31/05/2018
- 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
- Title: Gestión de pacientes en una consulta monográfica de enfermedad intersticial pulmonar.
Principal Investigator: Mª Victoria Villena Garrido
Funding Body: Boehringer Ingelheim España, S.A.
Start date: 01/01/2017

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

- Title: Proyecto RVA: (Respiratory visual Analytics).
Principal Investigator: Ady Angélica Castro Acosta, Carlos José Álvarez Martínez
Funding Body: Consorcio CIBER-Instituto de Salud Carlos III (ISCIII)
Start date: febrero 2017
End date: febrero 2018
- Title: Estatificación Clínica y Molecular del Cáncer de Pulmón Estadio I y II
National PI: Eduard Monsó Molas. PI Hospital 12 de Octubre: Carlos José Álvarez Martínez
Funding Body: Consorcio CIBER-Instituto de Salud Carlos III (ISCIII)
Start date: 2012
End date: 2017
- Title: Biomarcadores y perfiles clínicos personalizados en la Enfermedad Pulmonar Obstructiva Crónica (BIOMEPOC).
National PI: Joaquim Gea Giral (Hospital Clinic de Barcelona). PI Hospital 12 de Octubre: Ady Angélica Castro Acosta

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	17	67.586
Reviews	1	2.432
Editorials	1	2.979
Total	19	72.997
Letters	3	11.605
Total	22	84.602

- McLaughlin VV, Jansa P, Nielsen-Kudsk JE, Halank M, Simonneau G, Grünig E, Ulrich S, Rosenkranz S, Gómez Sánchez MA, Pulido T, Pepke-Zaba J, Barberá JA, Hoeper MM, Vachiéry JL, Lang I, Carvalho F, Meier C, Mueller K, Nikkho S, D'Armini AM. Riociguat in patients with chronic thromboembolic pulmonary hypertension: results from an early access study. *BMC Pulmonary Medicine.* 2017;17:216. IF: 2.435. Article.
- Quezada Loaiza CA, Velázquez Martín MT, Jiménez López-Guarch C, Ruiz Cano MJ, Navas Tejedor P, Carreira PE, Flox Camacho Á, de Pablo Gafas A, Delgado Jiménez JF, Gómez Sánchez MÁ, Escribano Subías P. Trends in Pulmonary Hypertension Over a Period of 30 Years: Experience From a Single Referral Centre. *Revista Española de Cardiología.* 2017;70:915-23. IF: 4.485. Article
- Jiménez Ruiz CA, Buljubasich D, Riesco Miranda JA, Acuña Izcaray A, de Granda Orive JI, Chatkin JM, Zabert G, Guerreros Benavides A, Paez Espinel N, Noé V, Sánchez-Angarita E, Núñez-Sánchez I, Sansores RH, Casas A, Palomar Lever A, Alfageme Michavila I. Using PICO Methodology to Answer Questions About Smoking in COPD Patients. *Archivos de Bronconeumología.* 2017;53:622-8. IF: 2.979. Article.
- Chatkin JM, Zabert G, Zabert I, Chatkin G, Jiménez-Ruiz CA, de Granda-Orive JI, Buljubasich D, Solano Reina S, Jiménez Ruiz CA, de Granda Orive JI, Solano Reina S, Riesco Miranda JA, de Higes Martinez E, Pascual Lledó JF, Garcia Rueda M, Lorza Blasco JJ, Signes Costa-Miñana J, Valencia Azcona B, Villar Laguna C, Cristóbal Fernández M. Guidelines for the Treatment of Smoking in Hospitalized Patients. *Archivos de Bronconeumología.* 2017;53:387-94. IF: 2.979. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Gómez López A, García Luján R, De Pablo Gafas A, Hernández F, Villena Garrido V, Valipour A, Meneses Pardo JC, De Miguel Poch E. First use of Amplatzer device for bronchopleural fistula after lung transplantation. *Thorax*. 2017;72:668-70. IF: 8.272. Article.
- Sellares J, Ferrer M, Anton A, Loureiro H, Bencosme C, Alonso R, Martínez-Olondris P, Sayas J, Peñacoba P, Torres A. Discontinuing noninvasive ventilation in severe chronic obstructive pulmonary disease exacerbations: a randomised controlled trial. *European Respiratory Journal*. 2017;50(1). pii: 1601448. IF: 10.569. Article.
- Arias Felipe A, Doménech García J, Sánchez Los Arcos I, Luordo D, García Sánchez FJ, Villanueva Martínez J, Forero de la Sotilla A, Villena Garrido V, Torres Macho J, García de Casasola Sánchez G. Teaching the basics of echocardiography in the undergraduate: Students as mentors. *Revista Clinica Espanola*. 2017;217:245-51. IF: 0.971. Article.
- Hernández Voth A, Sayas Catalán J, Benavides Mañas P, de Pablo Gafas A, Díaz Cambriles T, Villena Garrido V. Obstructive sleep apnea-hypopnea syndrome in patients with severe chronic respiratory insufficiency. *Medicina Clinica*. 2017;148:449-52. IF: 1.125. Article.
- Sarmiento E, Jaramillo M, Calahorra L, Fernandez-Yáñez J, Gomez-Sánchez M, Crespo-Leiro MG, Paniagua M, Almenar L, Cebrian M, Rabago G, Levy B, Segovia J, Gomez-Bueno M, Lopez J, Mirabet S, Navarro J, Rodriguez-Molina JJ, Fernandez-Cruz E, Carbone J. Evaluation of humoral immunity profiles to identify heart recipients at risk for development of severe infections: A multicenter prospective study. *Journal of Heart and Lung Transplantation*. 2017;36:529-39. IF: 7.114. Article.
- Arnedo-Peña A, Romeu-Gracia MA, Bellido-Blasco JB, Meseguer-Ferrer N, Silvestre-Silvestre E, Conde F, Fernández-González S, Dubon MA, Ortuño-Forcada M, Fabregat-Puerto J, Fenollosa-Amposta C, Segura-Navas L, Pac-Sa MR, Museros-Recatala L, Vizcaíno A, Tosca-Segura R. Incidence of allergic rhinitis in a cohort of young adults from 13-15 years old to 23-25 years old in Castellón (Spain). *Allergologia et Immunopathologia*. 2017;45:251-7. IF: 1.439. Article.
- Antón-Pacheco JL, Usategui A, Martínez I, García-Herrero CM, Gamez AP, Grau M, Martínez AM, Rodríguez-Peralto JL, Pablos JL. TGF-beta Antagonist Attenuates Fibrosis But Not Luminal Narrowing in Experimental Tracheal Stenosis. *Laryngoscope*. 2017;127:561-7. IF: 2.471. Article.
- Sayas Catalán J, Jiménez Huerta I, Benavides Mañas P, Luján M, López-Padilla D, Arias Arias E, Hernández Voth A, Rabec C. Videolaryngoscopy With Noninvasive Ventilation in Subjects With Upper-Airway Obstruction. *Respiratory Care*. 2017;62:222-30. IF: 1.733. Article.
- Pérez-Jacoiste Asín MA, Carrasco-Antón N, Fernández-Ruiz M, San Juan R, Alonso-Moralejo R, González E, Andrés A, López-Medrano F, Aguado JM. Experience with miltefosine for persistent or relapsing visceral leishmaniasis in solid organ transplant recipients: A case series from Spain. *Transplant Infectious Disease*. 2017 Feb;19(1). IF: 1.719. Article.
- Barberán J, García-Pérez FJ, Villena V, Fernández-Villar A, Malmierca E, Salas C, Giménez MJ, Granizo JJ, Aguilar L; working group on Infectious Diseases from the Spanish Society of Internal Medicine. Development of Aspergillosis in a cohort of non-neutropenic, non-transplant patients colonised by *Aspergillus* spp. *BMC Infectious Diseases*. 2017;17:34. IF: 2.768. Article.
- Cisneros C, Díaz-Campos RM, Marina N, Melero C, Padilla A, Pascual S, Pinedo C, Trisán A. Accreditation of specialized asthma units for adults in Spain: an applicable experience for the management of difficult-to-control asthma. *Journal of Asthma and Allergy*. 2017;10:163-9. IF: N/A. Article.
- Del Pozo R, Hernandez Gonzalez I, Escribano-Subias P. The prostacyclin pathway in pulmonary arterial hypertension: a clinical review. *Expert Review of Respiratory Medicine*. 2017;11:491-503. IF: 2.432. Review.
- de Granda-Orive JI, de Granda-Beltrán AM, Segrelles-Calvo G. Leptin, Orexin, Peptide YY and Ghrelin Associated with Relapse During Smoking Cessation. *Archivos de Bronconeumología*. 2017;53:543-4. IF: 2.979. Editorial Material.
- Arenas-Valls N, Chacón S, Pérez A, Del Pozo R. Atypical Chlamydia Psittaci Pneumonia. Four Related Cases. *Archivos de Bronconeumología*. 2017;53:277-9. IF: 2.979. Letter.
- de Granda-Orive JI, López-Padilla D, Segrelles-Calvo G. Reflexiones en voz alta sobre los conflictos de intereses: más allá de los autores. *Semergen*. 2017;43:474-5. IF: N/A. Letter.

PRIZES AND AWARDS

- Second prize for the best research project, awarded by Neumomadrid, for Proyecto SVA: Smoking Visual Analytics, (Subproyecto del proyecto RVA) en colaboración con el Dr. Ignacio de Granda Orive. Madrid, June 2017.

BONE METABOLISM, DIABETES AND NUTRITION



ACTIVE RESEARCH PROJECTS

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

- 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 (FMM) 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 Fecha de Finalización: 29/11/2019

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

- Title: Aplicabilidad clínica del software 3D-Shaper: estudio de normalidad en población española. Principal Investigator: Federico Gilberto Hawkins Carranza, Guillermo Martínez Díaz-Guerra Funding Body: Sociedad Española de Metabolismo Óseo y Mineral (SEIOMM) Start date: 2017 End date: 2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	3	12.494
Reviews	1	4.548
Total	4	17.042

- Sanz-Paris A, Álvarez Hernández J, Ballesteros-Pomar MD, Botella-Romero F, León-Sanz M, Martín-Palmero Á, Martínez Olmos MÁ, Olveira G. Evidence-based recommendations and expert consensus on enteral nutrition in the adult patient with diabetes mellitus or hyperglycemia. *Nutrition*. 2017;41:58-67. IF: 3.420. Article.
- Currás-Freixes M, Piñeiro-Yáñez E, Montero-Conde C, Apellániz-Ruiz M, Calsina B, Mancikova V, Remacha L, Richter S, Ercolino T, Rogowski-Lehmann N, Deutschbein T, Calatayud M, Guadalix S, Álvarez-Escalá C, Lamas C, Aller J, Sastre-Marcos J, Lázaro C, Galofré JC, Patiño-García A, Meoro-Avilés A, Balmaña-Gelpí J, De Miguel-Novoa P, Balbín M, Matías-Guiu X, Letón R, Inglada-Pérez L, Torres-Pérez R, Roldán-Romero JM, Rodríguez-Antona C, Fliedner SMJ, Opocher G, Pacak K, Korpershoek E, de Krijger RR, Vroonen L, Mannelli M, Fassnacht M, Beuschlein F, Eisenhofer G, Cascón A, Al-Shahrour F, Robledo M. A Targeted Next-Generation Sequencing Assay for Pheochromocytoma and Paraganglioma Diagnostics. *Journal of Molecular Diagnostics*. 2017;19:575-88. IF: 4.526. Article.
- Klek S, Chourdakis M, Bischoff S, Dubrov S, Forbes A, Galas A, Genton L, Gundogdu HR, Irtun O, Jagmane I, Jakobson-Forbes T, Jirka A, Kennedy N, Klimasauskas A, Khoroshilov I, Leon-Sanz M, Muscaritoli M, Panisic-Sekeljic M, Poulia KA, Schneider S, Siljamäki-Ojansuu U, Uyar M, Wanten G, Krznaric Z. Economy matters to fight against malnutrition: Results from a multicenter survey. *Clinical Nutrition*. 2017;36:162-9. IF: 4.548. Article.
- Bischoff SC, Boirie Y, Cederholm T, Chourdakis M, Cuerda C, Delzenne NM, Deutz NE, Fouque D, Genton L, Gil C,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Koletzko, B, Leon-Sanz, M, Shamir, R, Singer, J, Singer, P, Stroebel-Benschop, N, Thorell, A, Weimann, A, Barazzoni, R. Towards a multidisciplinary approach to understand and manage obesity and related diseases. *Clinical Nutrition*. 2017;36:917-38. IF: 4.548. Review.

- Carranza FH, Iglesias SG, Diaz-Guerra GM, Alvarez BL, Dominguez MLD. Thyroid hormones, TSH, thyroid cancer and bones in pre- and postmenopausal women. *Revista de Osteoporosis y Metabolismo Mineral*. 2017;9:89-100. IF: N/A. Review.

CLINICAL NEPHROLOGY



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	Fundación Madrileña de Nefrología	1
Competitive	Fundación SENEFRO	1
Noncompetitive	Various	1
Total		7

- Title: Trastornos moleculares y genéticos en las glomerulopatías causadas por disregulación del complemento. Correlaciones Genotipo-Fenotipo e implicaciones terapéuticas.
Principal Investigator: Manuel Praga Terente
Project No.: PI16/01685
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019 Project No.: ICI14/00350
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 31/12/2017, extended to 30/06/2018
- 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
End date: 30/12/2016, extended to 30/06/2018
- Title: Tratamiento secuencial con tacrolimus-rituximab versus esteroides más ciclofosfamida en la nefropatía membranosa primaria.
Principal Investigator: Manuel Praga Terente

- Title: Riesgo cardiovascular y nefropatía crónica del injerto en receptores de trasplante renal con autoanticuerpos IGA Anti Apolipoproteína H en el pretrasplante.
Principal Investigator: Enrique Morales Ruiz
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: 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
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
- Title: Desarrollo de un índice de gravedad en la Nefritis Lúpica.
Principal Investigator: Enrique Morales Ruiz
Funding Body: Fundación Madrileña de Nefrología
Start date: 01/08/2017
End date: 09/08/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	14	108.661
Reviews	3	4.305
Total	17	112.966
Letters	3	3.549
Total	20	116.515

- Tortajada A, Gutiérrez E, Goicoechea de Jorge E, Anter J, Segarra A, Espinosa M, Blasco M, Roman E, Marco H, Quintana LF, Gutiérrez J, Pinto S, Lopez-Trascasa M, Praga M, Rodriguez de Córdoba S. Elevated factor H-related protein 1 and factor H pathogenic variants decrease complement regulation in IgA nephropathy. *Kidney International*. 2017;92:953-63. IF: 8.395. Article.
- Sevillano AM, Gutiérrez E, Yuste C, Cavero T, Mérida E, Rodríguez P, García A, Morales E, Fernández C, Martínez MA, Moreno JA, Praga M. Remission of Hematuria Improves Renal Survival in IgA Nephropathy. *Journal of the American Society of Nephrology*. 2017;28:3089-99. IF: 8.966. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Goicoechea M, Sanchez-Niño MD, Ortiz A, García de Vinuesa S, Quiroga B, Bernis C, Morales E, Fernández-Juarez G, de Sequera P, Verdalles U, Verde E, Luño J. Low dose aspirin increases 15-epi-lipoxin A4 levels in diabetic chronic kidney disease patients. *Prostaglandins Leukotrienes and Essential Fatty Acids*. 2017;125:8-13. IF: 2.653. Article.
- Fernández M, Morales E, Gutierrez E, Polanco N, Hernández E, Mérida E, Praga M. Calciphylaxis: Beyond CKD-MBD. *Nefrologia*. 2017;37: 501-7. IF: 1.183. Article.
- Villacorta J, Diaz-Crespo F, Acevedo M, Cavero T, Guerrero C, Praga M, Fernandez-Juarez G. Renal vasculitis presenting with acute kidney injury. *Rheumatology International*. 2017;37:1035-41. IF: 1.824. Article.
- DaSilva I, Huerta A, Quintana L, Redondo B, Iglesias E, Draibe J, Praga M, Ballarín J, Díaz-Encarnación M; Spanish Group for the Study of Glomerular Diseases (GLOSEN). Rituximab for Steroid-Dependent or Frequently Relapsing Idiopathic Nephrotic Syndrome in Adults: A Retrospective, Multicenter Study in Spain. *Biodrugs*. 2017;31:239-49. IF: 2.835. Article.
- Fellström BC, Barratt J, Cook H, Coppo R, Feehally J, de Fijter JW, Floege J, Hetzel G, Jardine AG, Locatelli F, Maes BD, Mercer A, Ortiz F, Praga M, Sørensen SS, Tesar V, Del Vecchio L; NEFIGAN Trial Investigators. Targeted-release budesonide versus placebo in patients with IgA nephropathy (NEFIGAN): a double-blind, randomised, placebo-controlled phase 2b trial. *Lancet*. 2017;389:2117-27. IF: 47.831. Article.
- Serrano M, Martínez-Flores JA, Pérez D, García F, Cabrera-Marante O, Pleguezuelo DE, Paz-Artal E, Morales JM, González E, Serrano A. beta(2)-Glycoprotein I/IgA Immune Complexes A Marker to Predict Thrombosis After Renal Transplantation in Patients With Antiphospholipid Antibodies. *Circulation*. 2017;135:1922-34. IF: 19.309. Article.
- Fernández-Juárez G, Perez JV, Fernández JL, Martinez-Martinez E, Cachofeiro V, Barrio Lucia V, Ribera AM, Mendez Abreu A, Cordon A, Oliva Dominguez JA, Terente MP. High levels of circulating TNFR1 increase the risk of all-cause mortality and progression of renal disease in type 2 diabetic nephropathy. *Nephrology*. 2017;22:354-60. IF: 1.563. Article.
- Fernández-Ruiz M, Parra P, López-Medrano F, Ruiz-Merlo T, González E, Polanco N, Origüen J, San Juan R, Andrés A, Aguado JM. Serum sCD30: A promising biomarker for predicting the risk of bacterial infection after kidney transplantation. *Transplant Infectious Disease*. 2017;19(2). IF: 1.719. Article.
- Cavero T, Rabasco C, López A, Román E, Ávila A, Sevillano Á, Huerta A, Rojas-Rivera J, Fuentes C, Blasco M, Jarque A, García A, Mendizabal S, Gavela E, Macía M, Quintana LF, María Romera A, Borrego J, Arjona E, Espinosa M, Portolés J, Gracia-Iguacel C, González-Parra E, Aljama P, Morales E, Cao M, Rodríguez de Córdoba S, Praga M. Eculizumab in secondary atypical haemolytic uraemic syndrome. *Nephrology Dialysis Transplantation*. 2017;32:466-74. IF: 4.470. Article.
- Morales JM, Serrano M, Martínez-Flores JA, Pérez D, Castro MJ, Sánchez E, García F, Rodríguez-Antolín A, Alonso M, Gutierrez E, Morales E, Praga M, González E, Andrés A, Paz-Artal E, Martínez MA, Serrano A. The Presence of Pretransplant Antiphospholipid Antibodies IgA Anti-beta-2-Glycoprotein I as a Predictor of Graft Thrombosis After Renal Transplantation. *Transplantation*. 2017;101:597-607. IF: 3.678. Article.
- Pérez-Jacoiste Asín MA, Carrasco-Antón N, Fernández-Ruiz M, San Juan R, Alonso-Moralejo R, González E, Andrés A, López-Medrano F, Aguado JM. Experience with miltefosine for persistent or relapsing visceral leishmaniasis in solid organ transplant recipients: A case series from Spain. *Transplant Infectious Disease*. 2017 Feb;19(1). IF: 1.719. Article.
- Coppo R, Lofaro DD, Camilla RR, Bellur S, Catran D, Cook HT, Roberts IS, Peruzzi L, Amore A, Emma F, Fuiano L, Berg U, Topaloglu R, Bilginer Y, Gesualdo L, Polci R, Mizerska-Wasiak M, Caliskan Y, Lundberg S, Cancarini G, Geddes C, Wetzel J, Wiecek A, Durlik M, Cusinato S, Rollino C, Maggio M, Praga M, K Smerud H, Tesar V, Maixnerova D, Barratt J, Papalia T, Bonofiglio R, Mazzucco G, Giannakakis C, Soderberg M, Orhan D, Di Palma AM, Maldyk J, Ozluk Y,

- Sudelin B, Tardanico R, Kipgen D, Steenbergen E, Karkoszka H, Perkowska-Ptasinska A, Ferrario F, Gutierrez E, Honsova E. Risk factors for progression in children and young adults with IgA nephropathy: an analysis of 261 cases from the VALIGA European cohort. *Pediatric Nephrology*. 2017;32:139-50. IF: 2.516. Article.
- Caravaca-Fontán F, Gutiérrez E, Delgado Lillo R, Praga M. Monoclonal gammopathies of renal significance. *Nefrologia*. 2017;37:465-77. IF: 1.183. Review.
- Román E, Mendizábal S, Jarque I, de la Rubia J, Sempere A, Morales E, Praga M, Ávila A, Górriz JL. Secondary thrombotic microangiopathy and eculizumab: A reasonable therapeutic option. *Nefrologia*. 2017;37:478-91. IF: 1.183. Review.
- Praga M, Morales E. The Fatty Kidney: Obesity and Renal Disease. *Nephron*. 2017;136:273-6. IF: 1.939. Review.
- Morales E, Moliz C, Gutierrez E. Renal damage associated to intravitreal administration of ranibizumab. *Nefrologia*. 2017;37:653-5. IF: 1.183. Letter.
- Rodríguez PM, Morales E, Sánchez Á, Milla M, Martínez MA, Praga M. Cortical necrosis: An uncommon cause of acute renal failure with a very poor outcome. *Nefrologia*. 2017;37:339-41. IF: 1.183. Letter.
- Molina M, Morales E, Navarro B, Moliz C, Praga M. The star fruit as a cause of acute, kidney injury. *Nefrologia*. 2017;37:221-2. IF: 1.183. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Úrsula Verdalles Guzmán
Title: Hipertensión arterial refractaria en pacientes con enfermedad renal crónica: pautas de optimización del tratamiento diurético.
Director/s: Manuel Praga Terente
Date Defended: 29/05/2017
University: Universidad Complutense de Madrid
- Candidate:** David Arroyo Rueda
Title: Índice tobillo-brazo como método de valoración de riesgo vascular en pacientes con enfermedad renal crónica.
Director/s: Manuel Praga Terente
Date Defended: 07/09/2017
University: Universidad Complutense de Madrid

Director/s: Juan Manuel López Gómez, Manuel Praga Terente, Elvira Fernández Giráldez

Date Defended: 26/06/2017

University: Universidad Complutense de Madrid

Candidate: Javier Eduardo Reque Santiváñez
Title: Hipertensión pulmonar en pacientes con enfermedad renal crónica: prevalencia, factores asociados y valor pronóstico.

Director/s: Manuel Praga Terente

Date Defended: 07/09/2017

University: Universidad Complutense de Madrid

PULMONARY SURFACTANT AND RESPIRATORY DISEASES



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

- Title: Smart tools for gauging Nano Hazards (SMARTNA-NOTOX).
Coordinator: Vladimir Lobaskin (University College Dublin)
Subcontractor: Jesús Pérez Gil, Universidad Complutense
Project No.: H2020-NMP-2015-686098
Funding Body: UE
Start date: 2014
End date: 2018
Principal Investigator: Jesús Pérez Gil
Funding Body: Programa de I+D en Tecnologías de la Comunidad de Madrid
- 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
Principal Investigator: Jesús Pérez Gil
Funding Body: Airway Therapeutics
Start date: 1/11/2016
End date: 31/10/2017
- 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
Principal Investigator: Jesús Pérez Gil
Funding Body: Chiesi Farmaceutici, S.p.A.
- Title: Diseño, desarrollo y producción de nanocontenedores y nanovehículos (NANOBIOSOMA).

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	8	28.138
Total	8	28.138

- Autilio C, Echaide M, Benachi A, Marfaing-Koka A, Capoluongo ED, Pérez-Gil J, De Luca D. A Noninvasive Surfactant Adsorption Test Predicting the Need for Surfactant Therapy in Preterm Infants Treated with Continuous Positive Airway Pressure. *Journal of Pediatrics*. 2017;182:66-73. IF: 3.874. Article.
- Roldan, N, Perez-Gil, J, Morrow, MR, Garcia-Alvarez, B. Divide & Conquer: Surfactant Protein SP-C and Cholesterol Modulate Phase Segregation in Lung Surfactant. *Biophysical Journal*. 2017;113:847-59. IF: 3.656. Article.
- Caravilla P, Cruz A, Martin-Ugarte I, Oar-Arteta IR, Torralba J, Apellaniz B, Pérez-Gil J, Requejo-Isidro J, Huarte N, Nieva JL. Effects of HIV-1 gp41-Derived Virucidal Peptides on Virus-like Lipid Membranes. *Biophysical Journal*. 2017;113:1301-10. IF: 3.656. Article.
- Hidalgo A, Salomone F, Fresno N, Orellana G, Cruz A, Perez-Gil J. Efficient Interfacially Driven Vehiculization of Corticosteroids by Pulmonary Surfactant. *Langmuir*. 2017;33:7929-39. IF: 3.833. Article.
- Lemke A, Castillo-Sanchez JC, Prodinger F, Ceranic A, Hennerbichler-Lugscheider S, Perez-Gil J, Redl H, Wolbank S. Human amniotic membrane as newly identified source of amniotic fluid pulmonary surfactant. *Scientific Reports*. 2017;7(1):6406. IF: 4.259. Article.
- Hidalgo A, Cruz A, Perez-Gil J. Pulmonary surfactant and nanocarriers: Toxicity versus combined nanomedical applications. *Biochim Biophys Acta Biomembr*. 2017; 1859:1740-8. IF: 3.498. Article.
- Olmeda B, Martínez-Calle M, Pérez-Gil J. Pulmonary surfactant metabolism in the alveolar airspace: Biogenesis, extracellular conversions, recycling. *Annals of Anatomy-Anatomischer Anzeiger*. 2017;209:78-92. IF: 1.864. Article.
- Echaide M, Autilio C, Arroyo R, Perez-Gil J. Restoring pulmonary surfactant membranes and films at the respiratory surface. *Biochimica et Biophysica Acta - Biomembranes*. 2017;1859:1725-39. IF: 3.498. Article.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Nuria Roldán López
Title: Relaciones estructura-función de la proteína SP-C del surfactante pulmonar: efectos sobre la estructura de membranas y papel del colesterol.
Director/s: Jesús Pérez Gil, Begoña García Álvarez
Date Defended: 04/12/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

- Prize: Student Research Achievement Award, Poster Competition. 61st Annual Meeting of Biophysical Society. New Orleans, USA. September 11th-15th, 2017.
- Poster: "Structural characterization of human pulmonary surfactant protein SP-D by atomic force microscopy." Arroyo R, Martín-González A, Echaide M, Rosenbaum J, Moreno-Herrero F, Pérez Gil J.
- Prizes: Student Poster Award. EBSA 2017 & Biophysical Society. Best Student Poster Prize in the Drug Discovery and Delivery session. IUPAB Poster: "Pulmonary surfactant and drug delivery: sharing an interfacial trip". Hidalgo A, García-Mouton C, Caravilla P, Salis F, Orellana G, Nieva JL, Pérez-Gil J, Cruz A. 19th IUPAB and 11th European Biophysics Congress (Travel Award) – July 16th to 20th, Edinburgh, Scotland, 2017 (P).

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MALE'S INTEGRAL HEALTH

GROUP DIRECTOR

Romero Otero, Javier

RESEARCH

GROUP MEMBERS

Cabezali Barbancho, Daniel
Duarte Ojeda, José Manuel
García Gómez, Borja
García González, Lucía

Gómez Fraile, Andrés
Martín Díaz, Marcos
Medina Polo, José
Rodríguez Antolín, Alfredo

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	2
Total		3

- Title: Papel de STIM/ORAI en las alteraciones de diferentes lechos vasculares en el envejecimiento vascular humano. Valor pronóstico en receptores de trasplante renal.
Principal Investigator: Javier Romero Otero
Project No.: PI15/01969
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018
- 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
- Title: La carga de cáncer de próstata avanzado en España. Un estudio retrospectivo.
Principal Investigator: Alfredo Rodríguez Antolín
Funding Body: Ecostat Consulting UK LTD

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	13	102.920
Total	13	102.920

- Guerrero-Ramos F, Lara-Isla A, Justo-Quintas J, Duarte-Ojeda JM, de la Rosa-Kehrmann F, Villacampa-Aubá F. Adjuvant intravesical treatment for nonmuscle invasive bladder cancer: The importance of the strain and maintenance. *Actas Urologicas Espanolas*. 2017;41:590-5. IF: 1.181. Article.
- Alcaraz A, Martínez-Piñeiro L, Rodríguez A, Rubio J, Borque Á, Burgos J, Carballido J, Cázaro JM, Crespo I, Esquena S, Gómez-Veiga F, López D, Miñana B, Morote J, Ribal MJ, Solsona E, Suárez JF, Unda M. Consensus on castration-resistant prostate cancer management in Spain. *Archivos Espanoles de Urologia*. 2017;70:777-91. IF: 0.323. Article.
- Pont LP, Marcelli S, Robustillo M, Song D, Grandes D, Martin M, Iglesias I, Aso J, Laloumet I, Díaz AJ. Immediate Breast Reconstruction with Abdominal Free Flap and Adjuvant Radiotherapy: Evaluation of Quality of Life and Outcomes. *Plastic and Reconstructive Surgery*. 2017;140:681-90. IF: 3.784. Article.
- Rosen RC, Wu F, Behre HM, Porst H, Meuleman EJH, Maggi M, Romero-Otero J, Martinez-Salamanca JL, Jones TH, Debruyne FMJ, Kurth KH, Hackett GI, Quinton R, Stroberg P, Reisman Y, Pescatori ES, Morales A, Bassas L, Cruz N, Cunningham GR, Wheaton OA; RHYME Investigators. Quality of Life and Sexual Function Benefits of Long-Term Testosterone Treatment: Longitudinal Results From the Registry of Hypogonadism in Men (RHYME). *Journal of Sexual Medicine*. 2017;14:1104-15. IF: 2.978. Article.
- Fizazi K, Tran N, Fein L, Matsubara N, Rodriguez-Antolin A, Alekseev BY, Ozguroglu M, Ye DW, Feyerabend S, Protheroe A, De Porre P, Kheoh T, Park YC, Todd MB, Chi KN; LATITUDE Investigators. Abiraterone plus Prednisone in Metastatic, Castration-Sensitive Prostate Cancer. *New England Journal of Medicine*. 2017;377:352-60. IF: 72.406. Article.
- Gómez-Veiga F, Rodríguez-Antolín A, Miñana B, Hernández C, Suárez JF, Fernández-Gómez JM, Unda M, Burgos J, Alcaraz A, Rodríguez P, Medina R, Castiñeiras J, Moreno C, Pedrosa E, Cázaro JM; GESCAP. Diagnosis and treatment for clinically localized prostate cancer. Adherence to the European Association of Urology clinical guidelines in a nationwide population-based study - GESCAP group. *Actas Urologicas Espanolas*. 2017;41:359-67. IF: 1.181. Article.
- Otero JR, Gomez BG, Polo JM, Mateo CP, Barreras SG, Cruz EG, de la Vina JD, Antolin AR. Use of a lyophilized bovine pericardium graft to repair tunical defect in patients with Peyronie's disease: experience in a clinical setting. *Asian Journal of Andrology*. 2017;19:316-20. IF: 2.996. Article.
- Otero JR, Cruz CR, Gomez BG, Geli JS, Polo JM, Castane ER, Antolin AR. Comparison of the patient and partner satisfaction with 700CX and Titan penile prostheses. *Asian Journal of Andrology*. 2017;19:321-5. IF: 2.996. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Lara-Isla A, Medina-Polo J, Alonso-Isa M, Benítez-Sala R, Sopeña-Sutil R, Justo-Quintas J, Gil-Moradillo J, González-Padilla DA, García-Rojo E, Passas-Martínez JB, Tejido-Sánchez Á. Urinary Infections in Patients with Catheters in the Upper Urinary Tract: Microbiological Study. *Urologia Internationalis*. 2017;98:442-8. IF: 1.611. Article.
- Morales JM, Serrano M, Martínez-Flores JA, Pérez D, Castro MJ, Sánchez E, García F, Rodríguez-Antolín A, Alonso M, Gutierrez E, Morales E, Praga M, González E, Andrés A, Paz-Artal E, Martínez MA, Serrano A. The Presence of Pretransplant Antiphospholipid Antibodies IgA Anti-beta-2-Glycoprotein I as a Predictor of Graft Thrombosis After Renal Transplantation. *Transplantation*. 2017;101:597-607. IF: 3.678. Article.
- Segovia C, Martínez-Fernández M, Dueñas M, Rubio C, López-Calderón FF, Costa C, Saiz-Ladera C, Fernández-Grajera M, Duarte J, Muñoz HG, de la Rosa F, Villacampa F, Castellano D, Paramio JM. Opposing roles of PIK3CA gene alterations to EZH2 signaling in non-muscle invasive bladder cancer. *Oncotarget*. 2017;8:10531-42. IF: 5.168. Article.
- Fuentes S, Gomez-Fraile A, Carrillo-Arroyo I, Tordable-Ojeda C, Cabeza-Barbancho D. Endoscopic Treatment of Vesicoureteral Reflux in Infants. Can We Do It and Should We Do It? *Urology*. 2017;110:196-200. IF: 2.309. Article.
- Garcia-Gómez B, García-Cruz E, Bozzini G, Justo-Quintas J, García-Rojo E, Alonso-Isa M, Romero-Otero J. Sexual Satisfaction: An Opportunity to Explore Overall Health in Men. *Urology*. 2017;107:149-54. IF: 2.309. Article.
- Guerrero-Ramos F, Cavero-Escribano T, Rodríguez-Antolín A, Andrés-Belmonte A, Passas-Martínez J, Tejido-Sánchez Á. Perigraft fluid collections after kidney transplantation: Does the type of donor (uncontrolled donation after circulatory death vs. donation after brain death) have a role? *Central European Journal of Urology*. 2017;70:439-44. IF: N/A. Article.
- Medina-Polo J, Sopeña-Sutil R, Benítez-Sala R, Lara-Isla A, Alonso-Isa M, Gil-Moradillo J, Justo-Quintas J, García-Rojo E, González-Padilla DA, Passas-Martínez JB, Tejido-Sánchez Á. Prospective study analyzing risk factors and characteristics of healthcare-associated infections in a Urology ward. *Investigative and Clinical Urology*. 2017;58:61-9. IF: N/A. Article.

TISSUE ENGINEERING



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	2
Total		3

- 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: 02/01/2015
End date: 01/01/2018
- Title: Valoración del efecto de las terapias inmunosupresoras en el riesgo cardiovascular de los pacientes trasplantados renales positivos en el pretrasplante para IgA Anti Beta Glicoproteína I.
Principal Investigator: Antonio Serrano Hernández
Funding Body: Palex Medical, S.A.
Start date: 30/12/2012
End date: 26/04/2017
- Title: Estudio multicéntrico de la influencia de los anticuerpos antifosfolípido pretrasplante en la evolución del trasplante renal.
Principal Investigator: Antonio Serrano Hernández

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	7	43.261
Editorials	1	1.036
Total	8	44.297
Letters	2	2.308
Total	10	46.605

- Noreña I, Cabrera-Marante O, Fernández-Ruiz M. Endocarditis due to *Lactobacillus rhamnosus* in a patient with bicuspid aortic valve: Potential role for the consumption of probiotics? *Medicina Clinica*. 2017;149:181-2. IF: 1.125. Letter.
- Rodríguez PM, Morales E, Sánchez Á, Milla M, Martínez MA, Praga M. Cortical necrosis: An uncommon cause of acute renal failure with a very poor outcome. *Nefrología*. 2017;37:339-41. IF: 1.183. Letter.

- Sevillano AM, Gutiérrez E, Yuste C, Cavero T, Mérida E, Rodríguez P, García A, Morales E, Fernández C, Martínez MA, Moreno JA, Praga M. Remission of Hematuria Improves Renal Survival in IgA Nephropathy. *Journal of the American Society of Nephrology*. 2017;28:3089-99. IF: 8.966. Article.
- Tortosa C, Cabrera-Marante O, Serrano M, Martínez-Flores JA, Pérez D, Lora D, Morillas L, Paz-Artal E, Morales JM, Pleguezuelo D, Serrano A. Incidence of thromboembolic events in asymptomatic carriers of IgA anti beta 2 glycoprotein-I antibodies. *PLoS One*. 2017;12(7):e0178889. IF: 2.806. Article.
- Serrano M, Martínez-Flores JA, Pérez D, García F, Cabrera-Marante O, Pleguezuelo DE, Paz-Artal E, Morales JM, González E, Serrano A. beta(2)-Glycoprotein I/IgA Immune Complexes A Marker to Predict Thrombosis After Renal Transplantation in Patients With Antiphospholipid Antibodies. *Circulation*. 2017;135:1922-34. IF: 19.309. Article.
- Morales JM, Serrano M, Martínez-Flores JA, Pérez D, Castro MJ, Sánchez E, García F, Rodríguez-Antolín A, Alonso M, Gutierrez E, Morales E, Praga M, González E, Andrés A, Paz-Artal E, Martínez MA, Serrano A. The Presence of Pretransplant Antiphospholipid Antibodies IgA Anti-beta-2-Glycoprotein I as a Predictor of Graft Thrombosis After Renal Transplantation. *Transplantation*. 2017;101:597-607. IF: 3.678. Article.
- Martínez MA, Ortega MP. A quantitative study of the interstitial cells in renal allograft fibrosis. *Ultrastructural Pathology*. 2017;41:93. IF: 0.694. Article.
- Martínez MA, Rodríguez DR, Cerdán JM. Value of electron microscopy examination in the diagnosis of chronic alloimmune injury in renal allograft. *Ultrastructural Pathology*. 2017;41:96-7. IF: 0.694. Article.
- Delgado JF, Serrano M, Moran L, Enguita AB, Martinez-Flores JA, Ortiz-Bautista C, Rodriguez-Chaverri A, de Antonio IP, Cosio MDG, Panete MJC, Cortina JM, Serrano A. Early mortality after heart transplantation related to IgA anti beta(2)-glycoprotein I antibodies. *Journal of Heart and Lung Transplantation*. 2017;36:1258-65. IF: 7.114. Article.
- Pérez D, Serrano A. New Biomarker to Predict Thrombosis in Patients with Antiphospholipid Antibodies: Immune Complexes of Beta 2 Glycoprotein 1. *Israel Medical Association Journal*. 2017;19: 646-7. IF: 1.036. 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 2016 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
Total		2

▪ Title: Modelo predictivo de viabilidad de injerto hepático basado en factores histopatológicos, bioquímicos e inmunológicos en donante de corazón parado tipo II de Maastricht.
Principal Investigator: Manuel Abradelo de Usera
Project No.: FIMM 2011/0086
Funding Body: Fundación Mutua Madrileña (FMM)

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 (FMM)
Start date: 25/09/2013
End date: 25/09/2016, extended to 31/05/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	8	19.301
Total	8	19.301
Letters	4	9.007
Total	12	28.308

- Ramos Fernández M, Rivas Ruiz F, Fernández López A, Loinaz Segurola C, Fernández Cebrián JM, de la Portilla de Juan F. C reactive protein as a predictor of anastomotic leakage in colorectal surgery. Comparison between open and laparoscopic surgery. *Cirugía Española*. 2017;95:529-35. IF: 1.276. Article.
- Talayero P, Alonso-Guirado L, Padilla G, Artaza H, Dopazo A, Sánchez-Cabo F, Rodríguez-Muñoz S, Calvo-Pulido J, Mancebo E, de Lacoba MG, Paz-Artal E. 5-gene differential expression predicts stability of human intestinal allografts. *Experimental and Molecular Pathology*. 2017;103:163-71. IF: 2.423. Article.
- Nutu OA, Marcacuzo Quinto AA, Manrique Municio A, Justo Alonso I, Calvo Pulido J, García-Conde M, Cambra Molero F, Jiménez Romero LC. Mucinous appendiceal neoplasms: Incidence, diagnosis and surgical treatment. *Cirugía Española*. 2017;95:321-7. IF: 1.276. Article.
- Jimenez-Romero C, Cambra F, Caso O, Manrique A, Calvo J, Marcacuzo A, Rioja P, Lora D, Justo I. Octogenarian
- Agüero F, Forner A, Valdivieso A, Blanes M, Barcena R, Manzardo C, Rafecas A, Castells L, Abradelo M, Barrera-Baena P, 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-infected liver transplant recipients with incidental hepatocellular carcinoma: A prospective multicenter nationwide cohort study. *Liver Transplantation*. 2017;23:645-51. IF: 3.910. Article.
- D'Avola D, Cuervas-Mons V, Martí J, Ortiz de Urbina J, Lladó L, Jimenez C, Otero E, Suarez F, Rodrigo JM, Gómez MA, Fraga E, Lopez P, Serrano MT, Rios A, Fábrega E, Herrero JL. Cardiovascular morbidity and mortality after liver transplantation: The protective role of mycophenolate mofetil. *Liver Transplantation*. 2017;23:498-509. IF: 3.910. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Jiménez-Romero C, Conde M, de la Rosa F, Manrique A, Calvo J, Caso Ó, Muñoz C, Marcacuzco A, Justo I. Treatment of caval vein thrombosis associated with renal tumors. *Cirugia Espanola*. 2017;95:152-9. IF: 1.276. Article.
- Valero-Hervás DM, Sánchez-Zapardiel E, Castro MJ, Gallego-Bustos F, Cambra F, Justo I, Laguna-Goya R, Jiménez-Romero C, Moreno E, López-Medrano F, San Juan R, Fernández-Ruiz M, Aguado JM, Paz-Artal E. Complement C3F allotype synthesized by liver recipient modifies transplantation outcome independently from donor hepatic C3. *Clinical Transplantation*. 2017 Jan;31(1). IF: 1.865. Article.
- Nutu OA, Marcacuzco Quinto AA, Jiménez Romero LC. Primary malignant tumors of the small intestine: A retrospective analysis of 15 years experience. *Medicina Clinica*. 2017;149:129-30. IF: 1.125. Letter.
- Nutu OA, Marcacuzco Quinto AA, Jiménez Romero LC. Acute necrotizing pancreatitis after transarterial chemoembolization in candidates for a liver transplant. *Medicina Clinica*. 2017;149:92-3. IF: 1.125. Letter.
- Jiménez-Romero LC, Caso Maestro O, Cambra Molero F, Manrique Municio A, Calvo Pulido J, Marcacuzco Quinto A, Justo Alonso I. Octogenarian Liver Grafts Reaching Centennial Age After Transplantation. *Transplantation*. 2017;101:218-9. IF: 3.678. Letter.
- Jiménez-Romero C, Manrique A, Justo I. Annular pancreas as graft for pancreas transplantation. Technical considerations and long-term follow-up of two successful cases. *Transplant International*. 2017;30:841-3. IF: 3.079. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Paula Rioja Conde
Title: Análisis comparativo de los resultados en función del tipo de tutorización intraductal pancreática en la duodenopancreatectomía cefálica.
Director/s: Luis Carlos Jiménez Romero, Iago Justo Alonso
Date Defended: 29/03/2017
University: Universidad Complutense de Madrid
- Candidate:** Juan M^a Herrero Martínez
Title: Infecciones en trasplante de páncreas. Epidemiología, factores de riesgo e impacto en la función del injerto pancreático a largo plazo.
- Candidate:** Cristina Alegre Torrado
Title: Monoterapia inmunosupresora con inhibidores de m-TOR en trasplante hepático. Estudio comparativo entre sirolimus y everolimus.
Director/s: Luis Carlos Jiménez Romero, Enrique Moreno González
Date Defended: 12/07/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

- Research prize "Diego de Argumosa y Obregón", concedido por el Departamento de Cirugía de la Universidad Complutense de Madrid, año 2017.
Prize winner: Carlos Jiménez Romero.

CRITICAL PATIENT



PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	9	25.216
Total	9	25.216
Letters	4	4.924
Total	13	30.140

- Terceros-Almanza LJ, García-Fuentes C, Bermejo-Aznárez S, Prieto-Del Portillo IJ, Mudarra-Reche C, Sáez-de la Fuente I, Chico-Fernández M. Prediction of massive bleeding. Shock index and modified shock index. *Medicina Intensiva*. 2017;41:532-8. IF: 1.231. Article.
- García-Gigorro R, Renes-Carreño E, Pérez-Vela JL, Marín-Mateos H, Gutiérrez J, Corrés-Peiretti MA, Delgado JF, Pérez-de la Sota E, Cortina-Romero JM, Montejo-González JC. Mechanical support with venoarterial extracorporeal membrane oxygenation (ECMO-VA): Short-term and long-term prognosis after a successful weaning. *Medicina Intensiva*. 2017;41:513-22. IF: 1.231. Article.
- Rodríguez A, Ferri C, Martín-Lloeches I, Díaz E, Masclans JR, Gordo F, Sole-Violán J, Bodí M, Avilés-Jurado FX, Trefler S, Magret M, Moreno G, Reyes LF, Marin-Corral J, Yebenes JC, Esteban A, Anzueto A, Aliberti S, Restrepo MI; Grupo Español de Trabajo Gripe A Grave (GETGAG)/ Sociedad Española de Medicina Int, 2009-2015 H1N1

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

SEMICYUC Working Group investigators. Risk Factors for Noninvasive Ventilation Failure in Critically Ill Subjects With Confirmed Influenza Infection. *Respiratory Care*. 2017;62:1307-15. IF: 1.733. Article.

- Llompart-Pou JA, Chico-Fernández M, Sánchez-Casado M, Salaberria-Udabe R, Carbayo-Górriz C, Guerrero-López F, González-Robledo J, Ballesteros-Sanz MÁ, Herrán-Monge R, Servià-Goixart L, León-López R, Val-Jordán E. Scoring severity in trauma: comparison of prehospital scoring systems in trauma ICU patients. *European Journal of Trauma and Emergency Surgery*. 2017;43:351-7. IF: 0.895. Article.
- Rello J, Diaz E, Mañez R, Sole-Violan J, Valles J, Vidaur L, Zaragoza R, Gattarello S; CAPUCI II Consortium. Improved survival among ICU-hospitalized patients with community-acquired pneumonia by unidentified organisms: a multicenter case-control study. *European Journal of Clinical Microbiology & Infectious Diseases*. 2017;36:123-30. IF: 2.727. Article.
- Chacón-Alves S, Chico-Fernández M, García-Fuentes C, Umezawa-Makikado L, Montejo-González JC. Hemolysis and transfusion of old packed red blood cells in critical patients. *Medicina Intensiva*. 2017;41:448. IF: 1.231. Letter.
- Viejo-Moreno R, Garcia-Fuentes C, Chacon-Alves S, Terceros-Almanza LJ, Carlos Montejo-Gonzalez J, Chico-Fernandez M. Emergency treatment for traumatic cardiac arrest: prognostic factors and hospital outcome. *Emergencias*. 2017;29:87-92. IF: 3.028. Article.
- García-Gigorro R, Domínguez Aguado H, Barea Mendoza JA, Viejo Moreno R, Sánchez Izquierdo JA, Montejo-González JC. Short- and long-term prognosis of critically-ill patients referred to the ICU from the Emergency Department of a tertiary hospital. *Medicina Clínica*. 2017;148:197-203. IF: 1.125. Article.
- Reintam Blaser A, Starkopf J, Alhazzani W, Berger MM, Casaer MP, Deane AM, Fruhwald S, Hiesmayr M, Ichai C, et al. Conflicts of interest in the new consensus based definition of sepsis and septic shock (sepsis-3). *Medicina Intensiva*. 2017;41:60-1. IF: 1.231. Letter.
- Jakob SM, Loudet CI, Malbrain ML, Montejo González JC, Paugam-Burtz C, Poeze M, Preiser JC, Singer P, van Zanten AR, De Waele J, Wendon J, Wernermaier J, Whitehouse T, Wilmer A, Oudemans-van Straaten HM; ESICM Working Group on Gastrointestinal Function. Early enteral nutrition in critically ill patients: ESICM clinical practice guidelines. *Intensive Care Medicine*. 2017;43:380-98. IF: 12.015. Article.

KIDNEY TRANSPLANT



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Mutua Madrileña	1
Noncompetitive	Various	2
Total		3

- 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 (FMM)
Start date: 01/08/2014
End date: 30/09/2015, extended to 30/06/2017
- Title: Lesiones orales en el paciente trasplantado renal.
Principal Investigator: Amado Andrés Belmonte
Funding Body: Asociación Investigación y Tratamiento Enfermedad Renal
Start date: 22/06/2017
End date: 21/06/2020
- Title: Evaluación de las causas de no función primaria en los pacientes trasplantados de donantes fallecidos en asistolia no controlada (tipo II de Maastricht).

AREA 3

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	6	23.813
Total	6	23.813
Letters	1	1.183
Total	7	24.996

- Fernández M, Morales E, Gutierrez E, Polanco N, Hernández E, Mérida E, Praga M. Calciphylaxis: Beyond CKD-MBD. *Nefrologia*. 2017;37:501-7. IF: 1.183. Article.
- Rodriguez AAM, Belmonte AA, Gallegos FD, Coll E. Factors affecting the survival of transplants from donors after prehospital cardiac death. *Emergencias*. 2017;29:167-72. IF: 3.028. Article.
- Fernández I, Muñoz-Gómez R, Pascasio JM, Baliellas C, Polanco N, Esforzado N, Arias A, Prieto M, Castells L, Cuervas-Mons V, Hernández O, Crespo J, Calleja JL, Forns X, Londoño MC. Efficacy and tolerability of interferon-free antiviral therapy in kidney transplant recipients with chronic hepatitis C. *Journal of Hepatology*. 2017;66:718-23. IF: 12.486. Article.
- Fernández-Ruiz M, Parra P, López-Medrano F, Ruiz-Merlo T, González E, Polanco N, Origüen J, San Juan R, Andrés A, Aguado JM. Serum sCD30: A promising biomarker for predicting the risk of bacterial infection after kidney transplantation. *Transplant Infectious Disease*. 2017;19(2). IF: 1.719. Article.
- Morales JM, Serrano M, Martínez-Flores JA, Pérez D, Castro MJ, Sánchez E, García F, Rodríguez-Antolín A, Alonso M, Gutierrez E, Morales E, Praga M, González E, Andrés A, Paz-Artal E, Martínez MA, Serrano A. The Presence of Pretransplant Antiphospholipid Antibodies IgA Anti-beta-2-Glycoprotein I as a Predictor of Graft Thrombosis After Renal Transplantation. *Transplantation*. 2017;101:597-607. IF: 3.678. Article.
- Pérez-Jacoiste Asín MA, Carrasco-Antón N, Fernández-Ruiz M, San Juan R, Alonso-Moralejo R, González E, Andrés A, López-Medrano F, Aguado JM. Experience with miltefosine for persistent or relapsing visceral leishmaniasis in solid organ transplant recipients: A case series from Spain. *Transplant Infectious Disease*. 2017;19(1). IF: 1.719. Article.
- Molina M, Morales E, Navarro B, Moliz C, Praga M. The star fruit as a cause of acute, kidney injury. *Nefrologia*. 2017;37:221-2. IF: 1.183. Letter.

RARE AND GENETICALLY BASED DISEASES

COORDINATOR: MIGUEL ÁNGEL MARTÍN CASANUEVA

Rare, Mitochondrial, and Neuromuscular Diseases

Pathophysiology of Mitochondrial Biogenesis

Mitochondrial Membrane Laboratory

Porphyria, Haemochromatosis and Anemia

Regulation of Cellular Homeostasis

ALS Research Group

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

RARE, MITOCHONDRIAL AND NEUROMUSCULAR DISEASES

GROUP DIRECTOR

Martín Casanueva, Miguel Ángel

RESEARCH

GROUP MEMBERS

Amate García, Guillermo
 Arenas Barbero, Joaquín
 Asensi Peña, Sara
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 Domínguez González, Cristina
 Esteban Pérez, Jesús
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 Jiménez García, Sara
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 Lobo Jarne, Teresa
 Martín Hernández, Elena
 Martínez Azorín, Francisco
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 Pérez Pérez, Rafael
 Quijada Fraile, Mª del Pilar
 Rodríguez García, Mª Elena
 Rubio Muñoz, Juan Carlos
 Rufián Vázquez, Laura
 Serrano Lorenzo, Pablo
 Solís Vega, Mª Rosario
 Ugalde Bilbao, Cristina

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	University of Miami	2
Competitive	ISCIII	7
Competitive	Fundación Mutua Madrileña	1
Competitive	Others	1
TOTAL		11

- Title: The biosynthetic pathway of mitochondrial respiration.
 Principal Investigator: Cristina Ugalde Bilbao
 Funding Body: University of Miami
 Start date: 01/02/2017
 End date: 31/05/2018

- Title: The biosynthetic pathway of mitochondrial respiration.
 Principal Investigator: Cristina Ugalde Bilbao
 Funding Body: University of Miami
 Start date: 01/05/2014
 End date: 31/01/2018, extended to 31/12/2018

- 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, extended to 30/06/2019

- Title: El entrenamiento como inductor/modulador de mioquinas y neutrofinas en enfermedades mitocondriales. Una estrategia terapéutica.
 Principal Investigator: Mª 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, extended to 30/06/2019

▪ 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, extended to 30/06/2019

▪ 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, extended to 30/06/2019

▪ 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: Fisiopatogenia de la mutación M.3243A>G del ADN Mitochondrial: estudio clínico, evolutivo y genética, en una cohorte prospectiva de pacientes españoles.
 Principal Investigator: Miguel Ángel Martín Casanueva
 Project No.: FMM2017/0126
 Funding Body: Fundación Mutua Madrileña (FMM)
 Start date: 07/09/2017
 End date: 06/06/2020

▪ 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 mitocondriales
 Start date: 29/11/2016
 End date: 28/11/2018

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

- Title: Avances en la enfermedad de McArdle: nueva aproximación diagnóstica y terapéutica y actualización del registro europeo de pacientes EUROMAC. Búsqueda de biomarcadores para el seguimiento de la ELA y la DFT.
 Principal Investigator: Miguel Ángel Martín Casanueva
 Funding Body: CIBER Enfermedades Raras (CIBERER)
 Start date: 2017
 End date: 2018
- Title: Biomarcadores diagnósticos de enfermedades mitocondriales que afectan al sistema OXPHOS. Avances en la enfermedad de McArdle: nueva aproximación diagnóstica y terapéutica y actualización del registro europeo de pacientes EUROMAC. Búsqueda de biomarcadores para el seguimiento de la ELA y la DFT.
 Principal Investigator: Miguel Ángel Martín Casanueva
 Funding Body: CIBER Enfermedades Raras (CIBERER)
 Start date: 2016
 End date: 2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	18	77.698
Reviews	1	3.769
Editorials	3	10.069
Total	22	91.536
Letters	2	9.287
Total	24	100.823

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- de la Fuente-Herrera D, Gómez-Charro V, Almendro-Vedia VG, Morán M, Martín MÁ, Pilar Lillo M, Natale P, López-Montero I. Rhodamine-based sensor for real-time imaging of mitochondrial ATP in living fibroblasts. *Biochimica et Biophysica Acta-Bioenergetics*. 2017; 1858:999-1006. IF: 4.932. Article.
- Sancho P, Sánchez-Monteagudo A, Collado A, Marco-Marín C, Domínguez-González C, Camacho A, Knecht E, Espinós C, Lupo V. A newly distal hereditary motor neuropathy caused by a rare AIFM1 mutation. *Neurogenetics*. 2017;18:245-50. IF: 3.269. Article.
- Santalla A, Nogales-Gadea G, Encinar AB, Vieitez I, González-Quintana A, Serrano-Lorenzo P, Consuegra IG, Asensio S, Ballester-López A, Pintos-Morell G, Coll-Cantí J, Pareja-Galeano H, Díez-Bermejo J, Pérez M, Andreu AL, Pinós T, Arenas J, Martín MA, Lucia A. Genotypic and phenotypic features of all Spanish patients with McArdle disease: a 2016 update. *BMC Genomics*. 2017;18:819. IF: 3.729. Article.
- Martín-Hernández E, García-Silva MT, Quijada-Fraile P, Rodríguez-García ME, Rivera H, Hernández-Laín A, Coca-Robinot D, Fernández-Toral J, Arenas J, Martín MA, Martínez-Azorín F. Myopathic mtDNA Depletion Syndrome Due to Mutation in TK2 Gene. *Pediatric and Developmental Pathology*. 2017;20:416-20. IF: 1.089. Article.
- García-Bartolomé A, Peñas A, Marín-Buera L, Lobo-Jarne T, Pérez-Pérez R, Morán M, Arenas J, Martín MA, Ugalde C. Respiratory chain enzyme deficiency induces mitochondrial location of actin-binding gelsolin to modulate the oligomerization of VDAC complexes and cell survival. *Human Molecular Genetics*. 2017;26:2493-506. IF: 5.340. Article.
- Rodríguez-García ME, Cotrina-Vinagre FJ, Carnicer-Rodríguez P, Martínez-Azorín F. An innovative strategy to clone positive modifier genes of defects caused by mtDNA mutations: MRPS18C as suppressor gene of m.3946G > A mutation in MT-ND1 gene. *Human Genetics*. 2017;136:885-96. IF: 4.637. Article.
- Hernández-Jiménez E, Gutierrez-Fernández M, Cubillos-Zapata C, Otero-Ortega L, Rodríguez-Frutos B, Toledano V, Martínez-Sánchez P, Fuentes B, Varela-Serrano A, Avendaño-Ortiz J, Blázquez A, Mangas-Guijarro MÁ, Díez-



- Tejedor E, López-Collazo E. Circulating Monocytes Exhibit an Endotoxin Tolerance Status after Acute Ischemic Stroke: Mitochondrial DNA as a Putative Explanation for Poststroke Infections. *Journal of Immunology*. 2017; 198:2038-46. IF: 4.856. Article.
- Martín MÁ, García-Silva MT, Barcia G, Delmiro A, Rodríguez-García ME, Blázquez A, Francisco-Álvarez R, Martín-Hernández E, Quijada-Fraile P, Tejada-Palacios P, Arenas J, Santos C, Martínez-Azorín F. The homozygous R504C mutation in MTO1 gene is responsible for ONCE syndrome. *Clinical Genetics*. 2017;91:46-53. IF: 3.326. Article.
 - Maas RR, Iwanicka-Pronicka K, Ucar SK, Alhaddad B, AlSayed M, Al-Owain MA, Al-Zaidan HI, Balasubramanian S, Baric I, Bubshait DK, Burlina A, Christodoulou J, Chung WK, Colombo R, Darin N, Freisinger P, Silva MTG, Grunewald S, Haack TB, van Hasselt PM, Hikmat O, Horster F, Isohanni P, Ramzan K, Kovacs-Nagy R, Krumina Z, Martin-Hernandez E, Mayr JA, McClean P, De Meirlier L, Naess K, Ngu LH, Pajdowska M, Rahman S, Riordan G, Riley L, Roeben B, Rutsch F, Santer R, Schiff M, Seders M, Sequeira S, Sperl W, Staufenre C, Synofzik M, Taylor RW, Trubicka J, Tsiakas K, Unal O, Wassmer E, Wedatilake Y, Wolff T, Prokisch H, Morava E, Pronicka E, Wevers RA, de Brouwer AP, Wortmann SB. Progressive deafness-dystonia due to SERAC1 mutations: A study of 67 cases 2017. *Annals of Neurology*. 2017;82:1004-15. IF: 9.890. Article.
 - Fiua-Luces C, Padilla JR, Valentín J, Santana-Sosa E, Santos-Lozano A, Sanchis-Gomar F, Pareja-Galeano H, Morales JS, Fleck SJ, Pérez M, Lassaletta A, Soares-Miranda L, Pérez-Martínez A, Lucia A. Effects of Exercise on the Immune Function of Pediatric Patients with Solid Tumors Insights from the PAPEC Randomized Trial. *American Journal of Physical Medicine & Rehabilitation*. 2017;96:831-7. IF: 1.734. Article.
 - España-Serrano L, Guerra Martín-Palanco N, Montero-Pedraza A, Pérez-Santamarina E, Vidal R, García-Consuegra I, Valdizán EM, Pazos A, Palomo T, Jiménez-Arriero MÁ, Guadaño-Ferraz A, Hoenicka J. The Addiction-Related Protein ANKK1 is Differentially Expressed During

the Cell Cycle in Neural Precursors. *Cerebral Cortex*. 2017;27:2809-19. IF: 6.559. Article.

- Pareja-Galeano H, Santos-Lozano A, Sanchis-Gomar F, Fiua-Luces C, Garatachea N, Gálvez BG, Lucia A, Emanuele E. Circulating leptin and adiponectin concentrations in healthy exceptional longevity. *Mechanisms of Ageing and Development*. 2017;162:129-32. IF: 3.087. Article.

- Fiua-Luces C, Padilla JR, Soares-Miranda L, Santana-Sosa E, Quiroga JV, Santos-Lozano A, Pareja-Galeano H, Sanchis-Gomar F, Lorenzo-González R, Verde Z, López-Mojares LM, Lassaletta A, Fleck SJ, Pérez M, Pérez-Martínez A, Lucia A. Exercise Intervention in Pediatric Patients with Solid Tumors: The Physical Activity in Pediatric Cancer Trial. *Medicine and Science in Sports and Exercise*. 2017;49:223-30. IF: 4.141. Article.

- López-Blanco R, Rojo-Sebastián A, Torregrosa-Martínez MH, Blazquez A. Beyond cervical lipomas: myoclonus, gait disorder and multisystem involvement leading to mitochondrial disease. *BMJ Case Reports*. 2017 Jun 19; 2017. pii: bcr-2016-218861. IF: N/A. Article.

- Santos-Lozano A, Sanz-Ayan P, González-Saiz L, Quezada-Loaiza CA, Fiua-Luces C, Flox-Camacho A, Munguía-Izquierdo D, Santalla A, Morán M, Escribano-Subías P, Lucia A. Effects of an 8-month exercise intervention on physical capacity, NT-proBNP, physical activity levels and quality of life data in patients with pulmonary arterial hypertension by NYHA class. *Data in brief*. 2017;12:37-41. IF: N/A. Article.

- Pérez-López J, Morales-Conejo M, López-Rodríguez M, Hermida-Ameijeiras Á, Moltó-Abad M. Efficacy of laronidase therapy in patients with mucopolysaccharidosis type I who initiated enzyme replacement therapy in adult age. A systematic review and meta-analysis. *Molecular Genetics and Metabolism*. 2017;121:138-49. IF: 3.769. Review.

- Ruiz-Casado A, Martin-Ruiz A, Perez LM, Provencio M, Fiua-Luces C, Lucia A. Exercise and the Hallmarks of Cancer. *Trends in Cancer*. 2017;3:423-41. IF: N/A. Review.

- Bellusci M, Quijada-Fraile P, Barrio-Carreras D, Martín-Hernández E, García-Silva M, Merinero B, Pérez B, Hernández-Lain A. Carnitine palmitoyltransferase 1A deficiency: abnormal muscle biopsy findings in a child presenting with Reye's syndrome. *Journal of Inherited Metabolic Disease*. 2017;40:751-2. IF: 3.970. Editorial Material.

- Ortuno-Costela MD, Rodriguez-Mancera N, García-López M, Zurita-Díaz F, Moreno-Izquierdo A, Lucia A, Martín MA, Garesse R, Gallardo ME. Establishment of a human iPSC line (IISHD0i001-A) from a patient with McArdle disease. *Stem Cell Research*. 2017;23:188-92. IF: 3.494. Editorial Material.

- Hernández-Laín A, Esteban-Pérez J, Montenegro DC, Domínguez-González C. Myosin myopathy with external ophthalmoplegia associated with a novel homozygous mutation in MYH2. *Muscle & Nerve*. 2017;55:8-10. IF: 2.605. Editorial Material.

- García-Silva MT, Martín MA, Morán M. Understanding mitochondrial diseases. *Clinical Nutrition*. 2017;36:902. IF: 4.548. Letter.

- Nogales-Gadea G, Santalla A, Arenas J, Martín MA, Morán M, Lucia A. Low versus high carbohydrates in the diet of the world-class athlete: insights from McArdle's disease. *Journal of Physiology-London*. 2017;595:2991-2. IF: 4.739. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Alberto García Bartolomé
Title: Identificación de la gelsolina como posible biomarcador de las enfermedades mitocondriales del Sistema OXPHOS.
Director/s: Cristina Ugalde Bilbao
Date Defended: 03/02/2017
University: Universidad Autónoma de Madrid

PATHOPHYSIOLOGY OF MITOCHONDRIAL BIOGENESIS

GROUP DIRECTOR

Garesse Alarcón, Rafael

RESEARCH GROUP MEMBERS

Arredondo Lamas, Juan José
Cervera Jover, Margarita
Fernández Moreno, Miguel
Galera Monge, Teresa
Gallardo Pérez, Mª Esther
Garesse Alarcón, Rafael
González Páramos, Cristina

Laine Menéndez, Sara
Mamblona López, Laura
Ortuño Costela, Mª del Carmen
Palacios Zambrano, Sara
Rodríguez Fernández, Sonia
Vázquez Fonseca, Luis
Zurita Díaz, Francisco

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- Title: Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención. Parte 2: aproximaciones a terapia basadas en el uso de iPSCs.
Principal Investigator: Mª Esther Gallardo Pérez
Project No.: PI15/00484
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 28/07/2017
End date: 31/12/2018

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, extended to 2017
- Title: Desarrollo de modelos experimentales para el estudio, diagnóstico y terapia de las enfermedades mitocondriales.
Principal Investigator: Rafael Garesse Alarcón / Miguel Ángel Fernández Moreno (Co-PI).
Project No.: PI16/00789
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 2017
End date: 2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	2	16.305
Reviews	1	2.353
Editorials	1	3.494
Total	4	22.152

- Zurita-Díaz F, Galera-Monge T, Moreno-Izquierdo A, Corton M, Ayuso C, Garesse R, Gallardo ME. Establishment of a human DOA 'plus' iPSC line, IISHDOi003-A, with the mutation in the OPA1 gene: c.1635C> A p.Ser545Arg. Stem Cell Research. 2017;24:81-4. IF: 3.494. Article.
- Cruz-Bermúdez A, Vicente-Blanco RJ, Gonzalez-Vioque E, Provencio M, Fernández-Moreno MÁ, Garesse R. Spotlight on the relevance of mtDNA in cancer. Clinical & Translational Oncology. 2017;19:409-18. IF: 2.353. Review.
- Ortuno-Costela MD, Rodriguez-Mancera N, Garcia-Lopez M, Zurita-Díaz F, Moreno-Izquierdo A, Lucia A, Martin MA, Garesse R, Gallardo ME. Establishment of a human iPSC line (IISHDOi001-A) from a patient with McArdle disease. Stem Cell Research. 2017;23:188-92. IF: 3.494. Editorial Material.
- Fernández-Moreno M, Soto-Hermida A, Vázquez-Mosquera ME, Cortés-Pereira E, Relaño S, Hermida-Gómez T, Pérgola S, Oreiro-Villar N, Fernández-López C, Garesse R, Blanco FJ, Rego-Pérez I. Mitochondrial DNA haplogroups influence the risk of incident knee osteoarthritis in OA1 and CHECK cohorts. A meta-analysis and functional study. Annals of the Rheumatic Diseases. 2017;76:1114-22. IF: 12.811. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Teresa Galera Monge
Title: Síndrome de Leigh: Estudio fisiopatológico en neuronas y cardiomocitos derivados de iPSCs.
- **Director/s:** M^a Esther Gallardo Pérez, Rafael Garesse Alarcón
- **Date Defended:** 21/04/2017
- **University:** Universidad Autónoma de Madrid

MITOCHONDRIAL MEMBRANE**LABORATORY****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: 01/01/2016
 End date: 31/12/2018
- Title: Artificial Mitochondria for Health.
 Project No.: ERC-StG-2013-338133
 Principal Investigator: Iván López Montero
 Funding Body: European Commission
 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 flurorescens: 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	Σ IF (JCR 2016)
Articles	9	59.560
Total	9	59.560

- de la Fuente-Herrera D, Gómez-Charro V, Almendro-Vedia VG, Morán M, Martín MÁ, Pilar Lillo M, Natale P, López-Montero I. Rhodamine-based sensor for real-time imaging of mitochondrial ATP in living fibroblasts. *Biochimica et Biophysica Acta-Bioenergetics*. 2017; 1858:999-1006. IF: 4.932. Article.
- Almendro-Vedia VG, Natale P, Mell M, Bonneau S, Monroy F, Joubert F, López-Montero I. Nonequilibrium fluctuations of lipid membranes by the rotating motor; protein F1F0-ATP synthase. *Proceedings of the National Academy of Sciences of the United States of America*. 2017; 114:11291-6. IF: 9.661. Article.
- Beltrán-Heredia E, Almendro-Vedia VG, Monroy F, Cao FJ. Modeling the Mechanics of Cell Division: Influence of Spontaneous Membrane Curvature, Surface Tension, and Osmotic Pressure. *Frontiers in Physiology*. 2017; 8:312. IF: 4.134. Article.
- Vedia VGA, Natale P, Chen S, Monroy F, Rosilio V, Lopez-Montero I. iGUVs: Preparing Giant Unilamellar Vesicles with a Smartphone and Lipids Easily Extracted from Chicken Eggs. *Journal of Chemical Education*. 2017; 94:644-9. IF: 1.419. Article.
- Coelho JP, Mayoral MJ, Camacho L, Martín-Romero MT, Tardajos G, López-Montero I, Sanz E, Ávila-Brande D, Giner-Casares JJ, Fernández G, Guerrero-Martínez A. Mechanosensitive Gold Colloidal Membranes Mediated by Supramolecular Interfacial Self-Assembly. *Journal of the American Chemical Society*. 2017; 139:1120-8. IF: 13.858. Article.
- Encinar M, Casado S, Calzado-Martín A, Natale P, San Paulo Á, Calleja M, Vélez M, Monroy F, López-Montero I. Nanomechanical properties of composite protein networks of erythroid membranes at lipid surfaces. *Colloids And Surfaces B-Biointerfaces*. 2017; 149:174-83. IF: 3.887. Article.
- Arriaga LR, Rodriguez-Garcia R, Moleiro LH, Prevost S, Lopez-Montero I, Hellweg T, Monroy F. Dissipative dynamics of fluid lipid membranes enriched in cholesterol. *Advances in Colloid and Interface Science*. 2017; 247:514-20. IF: 7.223. Article.
- Moleiro LH, Mell M, Bocanegra R, Lopez-Montero I, Fouquet P, Hellweg T, Carrascosa JL, Monroy F. Permeability modes in fluctuating lipid membranes with DNA-translocating pores. *Advances In Colloid and Interface Science*. 2017; 247:543-54. IF: 7.223. Article.
- Catapano ER, Natale P, Monroy F, Lopez-Montero I. The enzymatic sphingomyelin to ceramide conversion increases the shear membrane viscosity at the air-water interface. *Advances in Colloid and Interface Science*. 2017; 247:555-60. IF: 7.223. Article.

PORPHYRIA, HAEMOCHROMATOSIS AND ANEMIA

**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación Mutua Madrileña	1
TOTAL		2

- 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: Mª José Morán Jiménez
Project No.: FMM 2016/0084
Funding Body: Fundación Mutua Madrileña (FMM)
Start date: 01/10/2016
End date: 30/09/2019

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

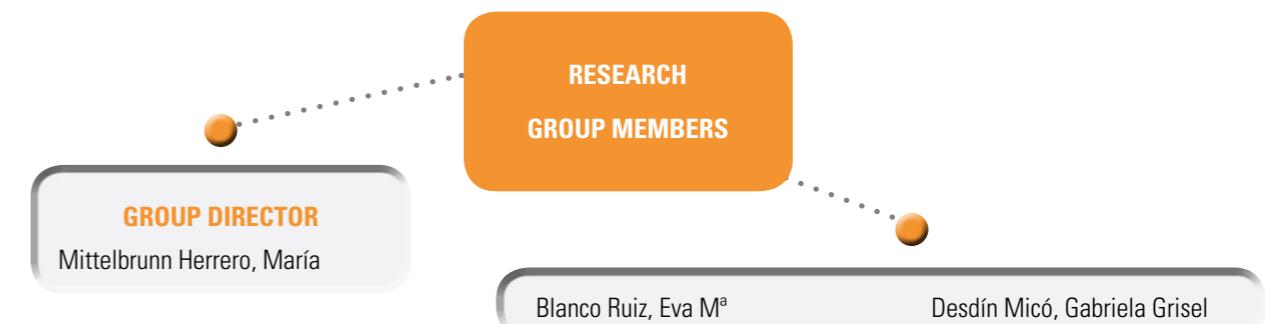
PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	2	8.616
Total	2	8.616

- Azcárate IG, Sánchez-Jaut S, Marín-García P, Linares M, Pérez-Benavente S, García-Sánchez M, Uceda J, Kamali AN, Morán-Jiménez MJ, Puyet A, Diez A, Bautista JM. Iron supplementation in mouse expands cellular innate defences in spleen and defers lethal malaria infection. Biochimica et Biophysica Acta-Molecular Basis of Disease. 2017;1863:3049-59. IF: 5.476. Article.
- de-la-Iglesia-Íñigo S, Moreno-Carralero MI, Lemés-Castellano A, Molero-Labarta T, Méndez M, Morán-Jiménez MJ. A case of congenital dyserythropoietic anemia type IV. Clinical case reports. 2017;5:248-52. IF: N/A. Article.
- Lora D, Gómez de la Cámara A, Fernández SP, Enríquez de Salamanca R, Gómez JFPR. Prognostic models for locally advanced cervical cancer: external validation of the published models. Journal of Gynecologic Oncology. 2017;28(5):e58. IF: 3.140. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

REGULATION OF CELLULAR HOMEOSTASIS

**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
TOTAL		2

- Title: Alteraciones metabólicas del sistema inmune y sus implicaciones en las enfermedades cardiovasculares y en el envejecimiento.
Principal Investigator: María Mittelbrunn Herrero
Project No.: PI16/02188
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- 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, extended to 28/02/2019

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

- Title: Endolysosomal-mitochondria crosstalk in cell and organism homeostasis
Principal Investigator: María Mittelbrunn Herrero
Project No.: GA 715322- ERC Starting Grant
Funding Body: European Research Council (ERC)
Start date: 01/03/2017
End date: 28/02/2022

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	2	8.864
Reviews	1	3.872
Total	3	12.736

- Gutiérrez-Vázquez C, Rodríguez-Galán A, Fernández-Alfara M, Mittelbrunn M, Sánchez-Cabo F, Martínez-Herrera DJ, Ramírez-Huesca M, Pascual-Montano A, Sánchez-Madrid F. miRNA profiling during antigen-dependent T cell activation: A role for miR-132-3p. *Scientific Reports*. 2017;7:3508. IF: 4.259. Article.
- Gutiérrez-Vázquez C, Enright AJ, Rodríguez-Galán A, Pérez-García A, Collier P, Jones MR, Benes V, Mizgerd JP, Mittelbrunn M, Ramiro AR, Sánchez-Madrid F. 3' Uridylation controls mature microRNA turnover during CD4 T-cell activation. *RNA*. 2017;23:882-91. IF: 4.605. Article.
- Desdín-Micó G, Mittelbrunn M. Role of exosomes in the protection of cellular homeostasis. *Cell Adhesion & Migration*. 2017;11:127-34. IF: 3.872. Review.
- Soto-Heredero G, Baixauli F, Mittelbrunn M. Interorganelle Communication between Mitochondria and the Endolysosomal System. *Frontiers in Cell and Developmental Biology*. 2017;5:95. IF: N/A. Article.
- Mateescu B, Kowal EJ, van Balkom BW, Bartel S, Bhattacharyya SN, Buzás EI, Buck AH, de Candia P, Chow FW, Das S, Driedonks TA, Fernández-Messina L, Haderk F, Hill AF, Jones JC, Van Keuren-Jensen KR, Lai CP, Lässer C, Liegro ID, Lunavat TR, Lorenowicz MJ, Maas SL, Mäger I, Mittelbrunn M, Momma S, Mukherjee K, Nawaz M, Pegtel DM, Pfaffl MW, Schiffelers RM, Tahara H, Théry C, Tosar JP, Wauben MH, Witwer KW, Nolte-'t Hoen EN. Obstacles and opportunities in the functional analysis of extracellular vesicle RNA - an ISEV position paper. *Journal of Extracellular Vesicles*. 2017;6:1286095. IF: N/A. Article.

ALS RESEARCH GROUP



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	2
TOTAL		3
<ul style="list-style-type: none"> 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, extended to 31/12/2018 Title: Búsqueda de biomarcadores para el seguimiento de la ELA y la DFT. Principal Investigator: Alberto García Redondo Funding Body: Asociación ayuda enfermos siempre ade- 		
<ul style="list-style-type: none"> lante, 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 		

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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	Σ IF (JCR 2016)
Articles	3	23.862
Editorials	1	2.605
Total	4	26.467
Letters	2	0,743
Total	6	27.210

- Sivera R, Frasquet M, Lupo V, García-Sobrino T, Blanco-Arias P, Pardo J, Fernández-Torrón R, de Munain AL, Márquez-Infante C, Villarreal L, Carbonell P, Rojas-García R, Segovia S, Illa I, Frongia AL, Nascimento A, Ortez C, García-Romero MDM, Pascual SI, Pelayo-Negro AL, Berciano J, Guerrero A, Casasnovas C, Camacho A, Esteban J, Chumillas MJ, Barreiro M, Díaz C, Palau F, Vilchez JJ, Espinós C, Sevilla T. Distribution and genotype-phenotype correlation of GDAP1 mutations in Spain. *Scientific Reports.* 2017;7:6677. IF: 4.259. Article.
- Rando A, Gasco S, de la Torre M, Garcia-Redondo A, Zaragoza P, Toivonen JM, Osta R. Granulocyte Colony-Stimulating Factor Ameliorates Skeletal Muscle Dysfunction in Amyotrophic Lateral Sclerosis Mice and Improves Proliferation of SOD1-G93A Myoblasts in vitro. *Neurodegenerative Diseases.* 2017;17:1-13. IF: 2.842. Article.
- Smith BN, Topp SD, Fallini C, Shibata H, Chen HJ, Troakes C, King A, Ticozi N, Kenna KP, Soragia-Gkazi A, Miller JW, Sato A, Dias DM, Jeon M, Vance C, Wong CH, de Majo M, Kattuah W, Mitchell JC, Scotter EL, Parkin NW, Sapp PC, Nolan M, Nestor PJ, Simpson M, Weale M, Lek M, Baas F, Vianney de Jong JM, Ten Asbroek ALMA, Redondo AG, Esteban-Pérez J, Tiloca C, Verde F, Duga S, Leigh N, Pall H, Morrison KE, Al-Chalabi A, Shaw PJ, Kirby J, Turner MR, Talbot K, Hardiman O, Glass JD, De Belleroche J, Maki M, Moss SE, Miller C, Gellera C, Ratti A, Al-Sarraj S, Brown RH, Silani V, Landers JE, Shaw CE. Mutations in the vesicular trafficking protein annexin A11 are associated with amyotrophic lateral sclerosis. *Science Translational Medicine.* 2017;3:9(388). IF: 16.761. Article.
- Hernández-Lain A, Esteban-Pérez J, Montenegro DC, Domínguez-González C. Myosin myopathy with external ophthalmoplegia associated with a novel homozygous mutation in MYH2. *Muscle & Nerve.* 2017;55:8-10. IF: 2.605. Editorial Material.
- Lopez-Blanco R, Dominguez-Gonzalez C, Gonzalo-Martinez JF, Esteban-Perez J. HiperCKemia paucisintomática en pacientes con síndrome de apnea/hipopnea obstructiva del sueño. *Revista de Neurologia.* 2017;64:141-3. IF: 0.743. Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

EPIDEMIOLOGY AND EVALUATION OF TECHNOLOGIES, SANITARY SERVICES AND INFORMATION SYSTEMS



COORDINATOR: AGUSTÍN GÓMEZ DE LA CÁMARA

Clinical Epidemiology, Health Technologies and Information and Communication Techniques

Research in Health Services and Results

Maternal and Child Health

Research in Complex Patients and Health System

CLINICAL EPIDEMIOLOGY, HEALTH TECHNOLOGIES AND INFORMATION AND COMMUNICATION TECHNIQUES

GROUP DIRECTOR

Gómez de la Cámara, Agustín

RESEARCH GROUP MEMBERS

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 Lora Pablos, David
 Martín-Arriscado Arroba, Cristina
 Martínez Ávila, José Carlos
 Muñoz Rodríguez, Rebeca
 Murcia Sánchez, Elena
 Pérez de Lara, Sara
 Pérez Doblado, Paloma
 Ruiz López, Pedro Miguel
 Saldaña Casado, Raquel
 Serrano Balazote, Pablo
 Varela Rodríguez, Carolina
 Vega Víaña, Rosa Mª

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Noncompetitive	Various	3
TOTAL		5

- 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

- 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, extended to 30/06/2019

- Title: Hospital Insite Onco Project Proposal
 Principal Investigator: Pablo Serrano Balazote
 Funding Body: CUSTODIX
 Start date: 12/11/2017
 End date: 31/06/2018

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

- INSITE. Project based on the development of an innovation 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 the rate of implementation. CAM.
- SITHEPAC. Registro Nacional Español SITHepaC (Sistema español de información de monitoreo terapéutico de pacientes con hepatitis C crónica). Strategic plan for addressing 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 phase IIb multicenter study for comparing the efficacy, safety, and pharmacokinetics (PK) of the optimal and standard doses of vancomycin in neonates and children aged ≤ 90 days of life and with suspected sepsis or confirmed sepsis caused by gram-positive germs.
- Sponsor: Fondazione PENTA Onlus. FP7-Health-2013-Innovation-1.

- Efficacy and Safety of Enteral Nutrition in Critically Ill Patients Who Require Vasoactive Support. Prospective, observational, multicenter study to analyze the tolerance and safety of enteral nutrition (EN) administered to a group of critically ill patients who require vasoactive and/or inotropic support. Metabolism and Nutrition Group (GTMN) of Sociedad Española de Medicina Intensiva, Crítica y Unidades Coronarias (SEMICYUC).

- SCReN. Coordination of the Program for the Management of Data and Biostatistics of the Spanish Clinical Research Network ISCIII Platform (PMBGD).
- CIBER de Epidemiología y Salud Pública.

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	15	78.180
Total	15	78.180

- Martín Sánchez M, Pérez Escutia MÁ, Lora Pablos D, Guardado Gonzales S, Cabezas Mendoza AM, Campos Bonel A, Pérez Montero H, D'Ambrosi R, Pérez-Regadera Gómez JF. Adjuvant radiochemotherapy in locally advanced gastric cancer. *Strahlentherapie und Onkologie*. 2017;193:1005-13. IF: 2.735. Article.
- Gómez de la Cámara A, De Andrés Esteban E, Urrútia Cuchí G, Calderón Sandubete E, Rubio Herrera MÁ, Menéndez Orenga M, Lora Pablos D. Variability of nutrients intake, lipid profile and cardiovascular mortality among geographical areas in Spain: The DRECE study. *Geospatial Health*. 2017;12:524. IF: 1.812. Article.
- Guzmán Ruiz Ó, Pérez Lázaro JJ, Ruiz López P. Performance and optimisation of a trigger tool for the detection of adverse events in hospitalised adult patients. *Gaceta Sanitaria*. 2017;31:453-8. IF: 1.768. Article.
- Bergon-Sendin E, Perez-Grande MD, Lora-Pablos D, Melgar-Bonis A, Ureta-Velasco N, Moral-Pumarega MT, Pallas-Alonso CR. Real-time safety audits in a neonatal unit. *Anales de Pediatría*. 2017;87:148-54. IF: 1.140. Article.
- Fernández-Ruiz M, Guinea J, Lora-Pablos D, Zaragoza Ó, Puig-Asensio M, Almirante B, Cuenca-Estrella M, Aguado JM; CANDIPOP Project, GEIH-GEMICOMED (SEIMC) and REIPI. Impact of fluconazole susceptibility on the outcome of patients with candidaemia: data from a population-based surveillance. *Clinical Microbiology and Infection*. 2017; 23:672.e1-672.e11. IF: 5.292. Article.
- Lora D, Gómez de la Cámara A, Fernández SP, Enríquez de Salamanca R, Gómez JFPR. Prognostic models for locally advanced cervical cancer: external validation of the published models. *Journal of Gynecologic Oncology*. 2017;28:e58. IF: 3.140. Article.
- Sánchez-de-Madariaga R, Muñoz A, Lozano-Rubí R, Serrano-Balazote P, Castro AL, Moreno O, Pascual M. Examining database persistence of ISO/EN 13606 standardized electronic health record extracts: relational vs. NoSQL approaches. *BMC Medical Informatics and Decision Making*. 2017;17:123. IF: 1.643. Article.
- Morales-Muñoz I, Martínez-Gras I, Ponce G, de la Cruz J, Lora D, Rodríguez-Jiménez R, Jurado-Barba R,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Navarrete F, García-Gutiérrez MS, Manzanares J, Rubio G. Psychological symptomatology and impaired prepulse inhibition of the startle reflex are associated with cannabis-induced psychosis. *Journal of Psychopharmacology*. 2017; 31:1035-45. IF: 4.179. Article.

Tortosa C, Cabrera-Marante O, Serrano M, Martínez-Flores JA, Pérez D, Lora D, Morillas L, Paz-Artal E, Morales JM, Pleguezuelo D, Serrano A. Incidence of thromboembolic events in asymptomatic carriers of IgA anti beta 2 glycoprotein-I antibodies. *Plos One*. 2017; 12(7):e0178889. IF: 2.806. Article.

Olmeda D, Cerezo-Wallis D, Riveiro-Falkenbach E, Pennacchi PC, Contreras-Alcalde M, Ibarz N, Cifdaloz M, Catena X, Calvo TG, Cañón E, Alonso-Curbelo D, Suárez J, Osterloh L, Graña O, Mulero F, Megías D, Cañamero M, Martínez-Torrecuadrada JL, Mondal C, Di Martino J, Lora D, Martínez-Corral I, Bravo-Cordero JJ, Muñoz J, Puig S, Ortiz-Romero P, Rodríguez-Peralto JL, Ortega S, Soengas MS. Whole-body imaging of lymphovascular niches identifies pre-metastatic roles of midkine. *Nature*. 2017; 546:676-80. IF: 40.137. Article.

Jimenez-Romero C, Cambra F, Caso O, Manrique A, Calvo J, Marcacuzco A, Rioja P, Lora D, Justo I. Octogenarian liver grafts: Is their use for transplant currently justified? *World Journal of Gastroenterology*. 2017;23:3099-110. IF: 3.365. Article.

Sánchez Barrueco A, González Galán F, Lora Pablos D, Villacampa Aubá JM, Ballestín Carcavilla C, Cenjor Español C, Almodóvar Álvarez C. HPV in Larynx Squamous Cell Carcinoma: New Serotypes and Survival Study within 10-Year Follow-up. *Otolaryngology-Head and Neck Surgery*. 2017;156:677-82. IF: 2.276. Article.

Riveiro-Falkenbach E, Ruano Y, García-Martín RM, Lora D, Cifdaloz M, Acquadro F, Ballestin C, Ortiz-Romero PL, Soengas MS, Rodríguez-Peralto JL. DEK oncogene is overexpressed during melanoma progression. *Pigment Cell & Melanoma Research*. 2017;30:194-202. IF: 5.170. Article.

Gómez PA, Castaño-León AM, Lora D, Cepeda S, Lagares A. Trends in computed tomography characteristics, intracranial pressure monitoring and surgical management

in severe traumatic brain injury: Analysis of a data base of the past 25 years in a neurosurgery department. *Neurocirugia*. 2017;28:1-14. IF: 0.548. Article.

López-Maestro M, Sierra-García P, Diaz-Gonzalez C, Jose Torres-Valdivieso MA, Lora-Pablos D, Ares-Segura S, Pallas-Alonso C R. Quality of attachment in infants less than 1500 g or less than 32 weeks Related factors. *Early Human Development*. 2017;104:1-6. IF: 2.169. Article.

Bonfill X, Martínez-Zapata MJ, Vernooij RWM, Sánchez MJ, Suárez-Varela MM, De la Cruz J, Emparanza JI, Ferrer M, Pijoan JI, Palou J, Schmidt S, Madrid E, Abraira V, Zamora J; EMPARO-CU study group. Clinical interval and diagnostic characteristics in a cohort of bladder cancer patients in Spain: a multicenter observational study. *BMC Research Notes*. 2017;10:708. IF: N/A. Article.

Gómez Gerique JA, Ferreira Gonzalez I, Rubio Herrera MA, Lora Pablos D, Martín Ballesteros B, García Sardina R, Gómez de la Cámara A. Improvement of serum lipids concentration in a general population historical cohort. *Why? Clinica e Investigacion en Arteriosclerosis*. 2017; 29:239-47. IF: N/A. Article.

Pérez Zapata AI, Gutiérrez Samaniego M, Rodríguez Cuéllar E, Gómez de la Cámara A, Ruiz López P. Comparison of the "Trigger" tool with the minimum basic data set for detecting adverse events in general surgery. *Revista de Calidad Asistencial*. 2017;32:209-14. IF: N/A. Article.

Contador I, Bermejo-Pareja F, Pablos DL, Villarejo A, Benito-León J. High education accelerates cognitive decline in dementia: A brief report from the population-based NEDICES cohort. *Dementia & Neuropsychología*. 2017;11:297-300. IF: N/A. Article.

Sáez C, Moner D, García-De-León-Chocano R, Muñoz-Soler V, García-De-León-González R, Maldonado JA, Boscá D, Tortajada S, Robles M, García-Gómez JM, Alcaraz M, Serrano P, Bernal JL, Rodríguez J, Bustos G, Esparza M. A Standardized and Data Quality Assessed Maternal-Child Care Integrated Data Repository for Research and Monitoring of Best Practices: A Pilot Project in Spain. *Studies in health technology and informatics*. 2017;235:539-43. IF: N/A. Article.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** David Lora Pablos
Title: Modelos matemáticos de pronóstico para cáncer de cérvix localmente avanzado. Validación externa de los modelos existentes.
Director/s: Agustín Gómez de la Cámara, Rafael Enríquez de Salamanca Lorente, José Fermín Pérez-Regadera Gómez
Date Defended: 28/03/2017
University: Universidad Complutense de Madrid

- **Candidate:** Greta Arias Merino
Title: Mortalidad debida a enfermedades raras neurológicas en Europa: enfermedad de Huntington, ataxias hereditarias y enfermedades de la motoneurona.
Director/s: Agustín Gómez de la Cámara, Verónica Alonso Ferreira, Manuel Posada de La Paz
Date Defended: 27/09/2017
University: Universidad Complutense de Madrid

RESEARCH IN HEALTH SERVICES AND RESULTS



PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	1	1.969
Total	1	1.969

- González-González AI, Orrego C, Perestelo-Pérez L, Bermejo-Caja CJ, Mora N, Koatz D, Ballester M, Del Pino T, Pérez-Ramos J, Toledo-Chavarri A, Robles N, Pérez-Rivas FJ, Ramírez-Puerta AB, Canellas-Criado Y, Del Rey-Granado Y, Muñoz-Balsa MJ, Becerril-Rojas B, Rodríguez-Morales D, Sánchez-Perruca L, Vázquez JR, Aguirre A. Effectiveness of a virtual intervention for primary healthcare professionals aimed at improving attitudes towards the empowerment of patients with chronic diseases: study protocol for a cluster randomized controlled trial (e-MPODERA project). *Trials.* 2017;18:505. IF: 1.969. Article.

PRIZES AND AWARDS

- Recognition of FIIBAP by Foro de Médicos de Atención Primaria, Toledo 2017.

MATERNAL AND CHILD HEALTH**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	Commission of the European Communities	1
Competitive	ISCIII	4
Noncompetitive	Various	1
TOTAL		6

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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
Funding Body: Commission of the European Communities
Start date: 01/02/2014
End date: 31/01/2019
- 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: 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: 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	Σ IF (JCR 2016)
Articles	25	55.313
Reviews	1	3.786
Editorials	2	2.280
Total	28	61.379
Letters	6	21.697
Total	34	83.076

- Sánchez-Illana Á, Núñez-Ramiro A, Cernada M, Parra-Llorca A, Valverde E, Blanco D, Moral-Pumarega MT, Cabañas F, Boix H, Pavón A, Chaffanel M, Benavente-Fernández I, Tofé I, Loureiro B, Fernández-Lorenzo JR, Fernández-Colomer B, García-Robles A, Kuligowski J, Vento M; HYPOTOP Study Group. Evolution of Energy Related Metabolites in Plasma from Newborns with Hypoxic-Ischemic Encephalopathy during Hypothermia Treatment. *Scientific Reports.* 2017;7:17039. IF: 4.259. Article.
- Álvarez Escudero J, Paredes Esteban RM, Cambra Lasosa FJ, Vento M, López Gil M, de Agustín Asencio JC, Moral Pumarega MT. More than 3 hours and less than 3 years: Safety of anesthetics procedures in children under 3 years undergoing surgery for more than 3 hours. *Anales de Pediatría.* 2017;87:236. IF: 1.140. Article.
- Bergon-Sendin E, Perez-Grande MD, Lora-Pablos D, Melgar-Bonis A, Ureta-Velasco N, Moral-Pumarega MT, Pallas-Alonso CR. Real-time safety audits in a neonatal unit. *Anales de Pediatría.* 2017;87:148-54. IF: 1.140. Article.
- Ramos JT, Villar S, Bouza E, Bergon-Sendin E, Perez Rivilla A, Collados CT, Andreu M, Reyes CS, Campos-Herrero MI, de Heredia JL, Herrera MCL, Alonso PA, Pallás-Alonso CR, Cuenca-Estrella M; Candineo Study Group. Performance of a Quantitative PCR-Based Assay and Beta-D-Glucan Detection for Diagnosis of Invasive Candidiasis in Very-Low-Birth-Weight Preterm Neonatal Patients (CANDINEO Study). *Journal of Clinical Microbiology.* 2017;55:2752-64. IF: 3.712. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Morales-Muñoz I, Martínez-Gras I, Ponce G, de la Cruz J, Lora D, Rodríguez-Jiménez R, Jurado-Barba R, Navarrete F, García-Gutiérrez MS, Manzanares J, Rubio G. Psychological symptomatology and impaired prepulse inhibition of the startle reflex are associated with cannabis-induced psychosis. *Journal of Psychopharmacology*. 2017;31:1035-45. IF: 4.179. Article.
- Rodríguez-Rey R, Palacios A, Alonso-Tapia J, Pérez E, Álvarez E, Coca A, Mencía S, Marcos AM, Mayordomo-Colunga J, Fernández F, Gómez F, Cruz J, Barón L, Calderón RM, Belda S. Posttraumatic Growth in Pediatric Intensive Care Personnel: Dependence on Resilience and Coping Strategies. *Psychological Trauma-Theory Research Practice and Policy*. 2017;9:407-15. IF: 1.584. Article.
- Moreno Villares JM. Monitorización de la nutrición parenteral pediátrica. *Nutricion Hospitalaria*. 2017;34:53-4. IF: 0.747. Article.
- Muñoz-Gallego A, Barral E, Enríquez E, Tejada P, Barceló A, de Inocencio J. Adalimumab for the treatment of refractory noninfectious paediatric uveitis. *International Ophthalmology*. 2017;37:719-25. IF: 1.132. Article.
- Muñoz Amat B, Vázquez Román S, Gallego Herrero C, Núñez-Enamorado N, Toldos González Ó, Pallás Alonso CR. A Preterm Newborn With the "Barrel Syndrome". *Pediatric Neurology*. 2017;71:8-13. IF: 2.018. Article.
- Moreno Villares JM, Varea Calderón V, Bousono García C; en nombre de la Sociedad Española de Gastroenterología, Hepatología y Nutrición. Malnutrition in children admitted to hospital. Results of a national survey. *Anales de Pediatría*. 2017;86:270-6. IF: 1.140. Article.
- Flores-Antón B, García-Lara NR, Pallás-Alonso CR. An Adoptive Mother Who Became a Human Milk Donor. *Journal of Human Lactation*. 2017;33:419-21. IF: 2.007. Article.
- Piris Borregas S, López Maestro M, Torres Valdивieso MJ, Martínez Ávila JC, Bustos Lozano G, Pallás Alonso CR. Improving nutritional practices in premature infants can increase their growth velocity and the breastfeeding rates. *Acta Paediatrica*. 2017;106:768-72. IF: 2.043. Article.
- López-Bueno A, Parras-Moltó M, López-Barrantes O, Belda S, Alejo A. Recombination events and variability among full-length genomes of co-circulating molluscum contagiosum virus subtypes 1 and 2. *Journal of General Virology*. 2017;98:1073-9. IF: 2.838. Article.
- Giner CP, Vendrell MCM, Martinez RG, Lopez LG, Munoz PG, Terradillos II, Costa CM, Villares JMM, Maristany CPP, del Rio MTP, Ferreiro SER, Bozano GP; Grp Estandarizacion SENPE. Pediatric parenteral nutrition: clinical practice guidelines from the Spanish Society of Parenteral and Enteral Nutrition (SENPE), the Spanish Society of Pediatric Gastroenterology, Hepatology and Nutrition (SEGHNP) and the Spanish Society of Hospital Pharmacy (SEFH). *Nutricion Hospitalaria*. 2017;34:745-58. IF: 0.747. Article.
- Fernandez Rodriguez B, Peña Gonzalez L, Calvo MC, Chaves Sanchez F, Pallas Alonso CR, de Alba Romero C. Oral care in a neonatal intensive care unit. *Journal of Maternal-Fetal & Neonatal Medicine*. 2017;30:953-7. IF: 1.826. Article.
- Vilallonga R, Moreno Villares JM, Yeste Fernández D, Sánchez Santos R, Casanueva Freijo F, Santolaya Ochando F, Leal Hernando N, Lecube Torelló A, Castaño González LA, Feliu A, Lopez-Nava G, Frutos D, Torres Garcia AJ, Ruiz de Adana JC. Initial Approach to Childhood Obesity in Spain. A Multisociety Expert Panel Assessment. *Obesity Surgery*. 2017;27:997-1006. IF: 3.947. Article.
- Pelaez RB, Casas MNV, Compes MCC, Villares JMM, Olveira G, Perez LML, Lozano CWB, Cuadrado AM, Gonzalez CT, Gomez MAC. Cost analysis of home parenteral nutrition in Spain. *Nutricion Hospitalaria*. 2017;34:271-6. IF: 0.747. Article.
- Moreno Villares JM, Olveira Fuster G. Logros y retos de Nutrición Hospitalaria 2016-2017. *Nutricion Hospitalaria*. 2017;34:1-3. IF: 0.747. Article.
- Martín MÁ, García-Silva MT, Barcia G, Delmiro A, Rodríguez-García ME, Blázquez A, Francisco-Álvarez R, Martín-Hernández E, Quijada-Fraile P, Tejada-Palacios P, Arenas J, Santos C, Martínez-Azorín F. The homozygous R504C mutation in MT01 gene is responsible for ONCE syndrome. *Clinical Genetics*. 2017;91:46-53. IF: 3.326. Article.
- Himmelmann K, Horber V, De La Cruz J, Horridge K, Mejaski-Bosnjak V, Hollody K, Krägeloh-Mann I; SCPE Working Group. MRI classification system (MRICS) for children with cerebral palsy development, reliability, and recommendations. *Developmental Medicine and Child Neurology*. 2017;59:57-64. IF: 3.116. Article.
- Lopez-Maestro M, Sierra-Garcia P, Diaz-Gonzalez C, Jose Torres-Valdivieso MA, Lora-Pablos D, Ares-Segura S, Pallas-Alonso CR. Quality of attachment in infants less than 1500 g or less than 32 weeks Related factors. *Early Human Development*. 2017;104:1-6. IF: 2.169. Article.
- Wanden-Berghe C, Miguel Luengo L, Alvarez J, Burgos R, Cuerda C, Matia P, Gomez Candela C, Martinez Olmos MA, Gonzalo M, Calleja A, Campos C, Perez de la Cruz A, Antonio Irles J, Leyes P, Sanchez R, de Luis Roman D, Cardona D, Santacruz N, Pablo Suarez J, Ballesta C, Sales J, Angeles Penacho M, Gardez C, Jose Martinez M, Canovas B, Manuel Moreno J, del Olmo D, Carabana F, Virgili N, Higuera I, Mauri S, Sanchez-Vilar O, Miserachs N, Angel Ponce M, Garcia Y, Moran JM, Apezetxea A, Tejera C, Calanas A, Canton A, Diaz P; Grp NADYA-SENPE. Spanish home enteral nutrition registry of the year 2014 and 2015 from the NADYA-SENPE Group. *Nutricion Hospitalaria*. 2017;34:15-8. IF: 0.747. Article.
- German-Diaz M, Rodriguez-Gil Y, Cruz-Rojo J, Charbit-Henrion F, Cerf-Bensussan N, Manzanares-Lopez Manzanares J, Moreno-Villares JM. A New Case of Congenital Malabsorptive Diarrhea and Diabetes Secondary to Mutant Neurogenin-3. *Pediatrics*. 2017;Jul 19. pii:e20162210. IF: 5.705. Article.
- Bonfill X, Martinez-Zapata MJ, Vernooij RWM, Sánchez MJ, Suárez-Varela MM, De la Cruz J, Emparanza JL, Ferrer M, Pijoan JL, Palou J, Schmidt S, Madrid E, Abraira V, Zamora J; EMPARO-CU study group. Clinical interval and diagnostic characteristics in a cohort of bladder cancer patients in Spain: a multicenter observational study. 2017. *BMC research notes*. 10:708. IF: N/A. Article.
- Álvarez Escudero J, Paredes Esteban RM, Cambra Lasosa FJ, Vento M, López Gil M, de Agustín Asencio JC, Moral Pumarega MT. More than 3 hours and less than 3 years old. Safety of anesthetic procedures in children under 3 years of age, subject to surgeries of more than 3 hours. *Revista Española de Anestesiología y Reanimación*. 2017;64:577-84. IF: N/A. Article.
- Moles I, Gómez M, Jiménez E, Bustos G, de Andrés J, Melgar A, Escuder D, Fernández L, Del Campo R, Rodríguez JM. Bacterial Diversity of the Gastric Content of Preterm Infants during Their First Month of Life at the Hospital. *Frontiers in Nutrition*. 2017;4:12. IF: N/A. Article.
- Sáez C, Moner D, García-De-León-Chocano R, Muñoz-Soler V, García-De-León-González R, Maldonado JA, Boscá D, Tortajada S, Robles M, García-Gómez JM, Alcaraz M, Serrano P, Bernal JL, Rodríguez J, Bustos G, Esparza M. A Standardized and Data Quality Assessed Maternal-Child Care Integrated Data Repository for Research and Monitoring of Best Practices: A Pilot Project in Spain. *Studies in Health Technology and Informatics*. 2017;235:539-43. IF: N/A. Article.
- Rivera-Pedroza CI, Barraza-García J, Paumard-Hernández B, Nevado J, Orbea-Gallardo C, Sánchez Del Pozo J, Heath KE. Chromosome 1p31.1p31.3 Deletion in a Patient with Craniostenosis, Central Nervous System and Renal Malformation: Case Report and Review of the Literature. *Molecular syndromology*. 2017;8:30-5. IF: N/A. Article.
- Roué JM, Kuhn P, Lopez Maestro M, Maastrup RA, Mitánchez D, Westrup B, Sizun J. Eight principles for patient-centred and family-centred care for newborns in the neonatal intensive care unit. *Archives of Disease in Childhood-Fetal and Neonatal Edition*. 2017;102:364-8. IF: 3.786. Review.
- Arnaez J, Tejedor JC, Caserío S, Montes MT, Moral MT, González de Dios J, García-Alix A; Grupo de Trabajo sobre Dificultades Bioéticas en Neonatología. Bioethics at the end of life in neonatology: unresolved issues. *Anales de*

Pediatría. 2017;87:356. IF: 1.140. Editorial Material.

- García Lara NR, Peña Caballero M. Risks associated with the uncontrolled use of donated breast milk. Anales de Pediatría. 2017;86:237-9. IF: 1.140. Editorial Material.
- Izquierdo-García E, Escobar Rodríguez I, Moreno-Villares JM, Iglesias Peinado I. Drug syrups: Errors in drug labels with possible consequences in patients with hereditary fructose intolerance. Anales de Pediatría. 2017;87:351-3. IF: 1.140. Letter.
- Esteban E, Belda S, García-Soler P, Rodríguez-Núñez A, Calvo C, Gil-Anton J, Bustinza A, Iglesias-Bouzas MI, Pujol-Jove M, deCarlos JC, García-Iñiguez JP, Pérez-Iranzo A, Téllez C, Ortiz I, Pérez R, Bonil V, Brió S, Concha A, López JD, Murga V, Flores JC, Trujillo A, Felipe A, Abadesso C, Pino M, León J, Martínez MC, Gómez F, Pérez-Montejano R, Tapia R, Jordan I, Ferrer R. A multifaceted educational intervention shortened time to antibiotic administration in children with severe sepsis and septic shock: ABISSEdusepsis pediatric study. Intensive Care Medicine. 2017;43:1916-8. IF: 12.015. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Diana Escuder Vieco
Title: Calidad de la leche donada durante el procesamiento en un Banco de Leche Humana. Innovación en los procedimientos.
Director/s: Carmen Rosa Pallás Alonso, Leónides Fernández Álvarez, Irene Espinosa Martos
Date Defended: 19/06/2017
University: Universidad Complutense de Madrid

- Rubio San Simón A, Ortueta Olartecoechea A, Barral Mena E, Tejada Palacios P, de Inocencio Arocena J. Unilateral amaurosis as an initial symptom of juvenile idiopathic arthritis. Anales de Pediatría. 2017;86:352-3. IF: 1.140. Letter.
- Moreno Villares JM. Assessment of resting energy expenditure in pediatric mitochondrial diseases with indirect calorimetry. Clinical Nutrition. 2017;36:905. IF: 4.548. Letter.
- Palacios A, Llorente AM, Ordóñez O, Martínez de Aragón A. Intracranial mycotic aneurysm in a 5-month-old infant with pneumococcal meningitis. Enfermedades Infecciosas y Microbiología Clínica. 2017;35:267-9. IF: 1.714. Letter.
- Moreno Villares JM. Reflexión en torno al informe sobre consentimiento informado en pediatría del Comité de Bioética de la Academia Americana de Pediatría (2016). Anales de Pediatría. 2017;86:56-7. IF: 1.140. Letter.
- Moreno Villares JM. Dilemas Éticos en la Práctica de la Medicina Infantil. Cuadernos de Bioética. 2017;28:269-71. IF: N/A. Letter.

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 AWARDS

- XXVI Congreso de Neonatología y Medicina Perinatal. Zaragoza, September 2017. Prize for the best conference report on breast feeding.
Winning report: Efecto de la pasteurización HTST y Holder en compuestos con actividad biológica presentes en la leche humana donada. Escuder Vieco D, Espinosa I, Fernández L, Rodríguez JM, García Lara N, Pallás Alonso CR.

RESEARCH IN COMPLEX PATIENTS AND HEALTH SYSTEM



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

- Title: Cohorte de pacientes con hipertensión arterial resistente en Atención Primaria: exceso de riesgo de enfermedad renal crónica.
Principal Investigator: María Sala Serra; IC: Ángel Alberquilla Menéndez-Asenjo
Project No.: PI16/00244
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title: Desarrollo desde la atención primaria de un modelo de estratificación del riesgo en pacientes con insuficiencia cardiaca para predicción de discapacidad y hospitalización.
Principal Investigator: Tomás Gómez Gascón; IC: Ángel Alberquilla Menéndez-Asenjo
Project No.: PI16/01609
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title: Comorbilidades y uso de servicios de salud en mujeres que han sobrevivido al cáncer de mama cinco años o más". (Proyecto SURCAN).
Principal Investigator: Luis Miguel García Olmos; IC: Ángel Alberquilla Menéndez-Asenjo

Project No.: PI14/01677
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 IF (JCR 2016)
Articles	1	2.369
Total	1	2.369
Letters	1	1.042
Total	2	3.411

- García-Olmos L, Rodríguez-Salvanés F, Batlle-Pérez M, Aguilar-Torres R, Porro-Fernández C, García-Cabello A, Carmona M, Ruiz-Alonso S, Garrido-Elustondo S, Alberquilla Á, Sánchez-Gómez LM, Sánchez de Madariaga R, Monge-Navarrete E, Benito-Ortiz L, Baños-Pérez N, Simón-Puerta A, López Rodríguez AB, Martínez-Álvarez MÁ, Velilla-Celma MÁ, Bernal-Gómez MI; CHIC Group. Development and validation of a risk stratification model for prediction of disability and hospitalisation in patients with heart failure: a study protocol. BMJ Open. 2017 Jun 8;7(6):e014840. IF: 2.369. Article.
- Cano Pérez MD, Castell Alcalá MV, Alberquilla Menéndez-Asenjo Á, Otero Puime Á. Variability in the use of health services by the elderly related to the medical list to which they belong. Atencion Primaria. 2017;49: 620-1. IF: 1.042. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Patricia Ahijado Cañizares
Title: Estudio de la validez y precisión de la historia clínica informatizada en atención primaria como fuente de datos epidemiológicos y de gestión, en un Área sanitaria de la Comunidad de Madrid.
- **Director/s:** Ángel Alberquilla Menéndez-Asenjo, Juan Antonio Vargas Núñez, Luis Alfonso Rico Zalb
- **Date Defended:** 28/06/2017
- **University:** Universidad Autónoma de Madrid

- **Candidate:** Mª Dolores Cano Pérez
Title: Utilización de los servicios sanitarios por los mayores de 65 años. Análisis de los factores determinantes y de la variabilidad.
- **Director/s:** Ángel Alberquilla Menéndez-Asenjo, Ángel Otero Puime, Mª Victoria Castell Alcalá
- **Date Defended:** 13/09/2017
- **University:** Universidad Autónoma de Madrid

CARDIOVASCULAR



COORDINATOR: HÉCTOR BUENO ZAMORA

**Translational Multidisciplinary
Cardiovascular Research**

**Research on Cardiovascular Imaging
Heart Failure – Pulmonary Hypertension**

**Translational Research in Hypertension
and Cardiorenal Disease**

Perinatal Medicine

Research on Cardiovascular Risk

TRANSLATIONAL MULTIDISCIPLINARY CARDIOVASCULAR RESEARCH



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Noncompetitive	Various	1
TOTAL		3

- Title: Athero-Brain: Heart to Head (H2H) Study.
Principal Investigator: Héctor José Bueno Zamora
Project No.: PIE16/00021
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title: Antiagregación en IAM con elevación ST revascularizado C/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, extended to 30/06/2018
- Title: Investigación de la estructura y función del sistema cardiovascular en la salud y enfermedad y los mecanismos implicados (PICAT 1 - CARDIOBANK I+12 - Gregorio Marañón).
Principal Investigator: Héctor José Bueno Zamora
Funding Body: Fundación Investigación Biomédica Hospital Gregorio Marañón
Start date: 25/02/2016
End date: 24/02/2019

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

- Title: Cardiología Conductual. Intervención Psicológica en enfermedad cardiovascular.
Principal Investigator: Rocío Tello de Meneses, Co-Investigator together with Héctor José Bueno Zamora
Funding Body: Ayudas a la Investigación. Universidad Camilo José Cela
Start date: 2017
End date: 2018
- Title: Antocianos y flavanoles de los alimentos como estrategia de envejecimiento saludable: salud cardiovascular y estado cognitivo.
Principal Investigator: Sonia Cristina de Pascual, Teresa Fernández. Verónica Puertas Martín (colaborator)
Project No.: Convocatoria RETOS 2016-AGL2016-76832-R
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/01/2017
End date: 31/12/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	27	255.169
Reviews	1	2.763
Editorials	4	34.468
Total	32	292.400
Letters	5	40.465
Total	37	332.865

- Fernández-Friera L, Fuster V, López-Melgar B, Oliva B, García-Ruiz JM, Mendiguren J, Bueno H, Pocock S, Ibáñez B, Fernández-Ortiz A, Sanz J. Normal LDL-Cholesterol Levels Are Associated With Subclinical Atherosclerosis in the Absence of Risk Factors. *Journal of the American College of Cardiology*. 2017;70:2979-91. IF: 19.896. Article.
- Palma-Tortosa S, García-Culebras A, Moraga A, Hurtado O, Pérez-Ruiz A, Durán-Laforet V, Parra J, Cuartero MI, Pradillo JM, Moro MA, Lizasoain I. Specific Features of SVZ Neurogenesis After Cortical Ischemia: a Longitudinal Study. *Scientific Reports*. 2017;7:16343. IF: 4.259. Article.
- Miró Ò, Rossello X, Gil V, Martín-Sánchez FJ, Llorens P, Herrero-Puente P, Jacob J, Bueno H, Pocock SJ; ICA-SEMES Research Group. Predicting 30-Day Mortality for Patients with Acute Heart Failure in the Emergency Department A Cohort Study. *Annals of Internal Medicine*. 2017;167:698-705. IF: 17.135. Article
- Barrabés JA, Gupta A, Porta-Sánchez A, Strait KM, Acosta-Vélez JG, D'Onofrio G, Lidón RM, Geda M, Dreyer RP, Lorenze NP, Lichtman JH, Spertus JA, Bueno H, Krumholz HM. Comparison of Electrocardiographic Characteristics in Men Versus Women <= 55 Years With
- Acute Myocardial Infarction (a Variation in Recovery: Role of Gender on Outcomes of Young Acute Myocardial Infarction Patients Substudy). *American Journal of Cardiology*. 2017;120:1727-33. IF: 3.398. Article.
- Fernández-Alvira JM, Fuster V, Pocock S, Sanz J, Fernández-Friera L, Laclaustra M, Fernández-Jiménez R, Mendiguren J, Fernández-Ortiz A, Ibáñez B, Bueno H. Predicting Subclinical Atherosclerosis in Low-Risk Individuals Ideal Cardiovascular Health Score and Fuster-BEWAT Score. *Journal of the American College of Cardiology*. 2017;70:2463-73. IF: 19.896. Article.
- Fontenla A, García-Fernández J, Ibáñez JL; Spanish Catheter Ablation Registry collaborators. Spanish Catheter Ablation Registry. 16th Official Report of the Spanish Society of Cardiology Working Group on Electrophysiology and Arrhythmias (2016). *Revista Espanola de Cardiologia*. 2017;70:971-82. IF: 4.485. Article.
- Rosselló X, Huo Y, Pocock S, de Werf FV, Chin CT, Danchin N, Lee SW, Medina J, Vega A, Bueno H. Global geographical variations in ST-segment elevation myocardial infarction management and post-discharge mortality. *International Journal of Cardiology*. 2017;245:27-34. IF: 6.189. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Uzhova I, Fuster V, Fernández-Ortiz A, Ordovás JM, Sanz J, Fernández-Friera L, López-Melgar B, Mendiguren JM, Ibáñez B, Bueno H, Peñalvo JL. The Importance of Breakfast in Atherosclerosis Disease. *Journal of the American College of Cardiology*. 2017;70:1833-42. IF: 19.896. Article.
- de Lorenzo-Pinto A, Herranz-Alonso A, Cuéllar-Basterrechea B, Bellón-Cano JM, Sanjurjo-Sáez M, Bueno H. Clinical and Economic Impact of a Multidisciplinary Intervention to Reduce Bleeding Risk in Patients with Acute Coronary Syndrome. *Revista Espanola de Cardiologia*. 2017;70:825-31. IF: 4.485. Article.
- Bueno H, Pocock S, Medina J, Danchin N, Annemans L, Licour M, Gregson J, Vega AM, van de Werf F. Association Between Clinical Pathways Leading to Medical Management and Prognosis in Patients With NSTEACS. *Revista Espanola de Cardiologia*. 2017;70:817-24. IF: 4.485. Article.
- Martín-Sánchez FJ, Rodríguez-Adrada E, Vidan MT, Llopis García G, González Del Castillo J, Rizzi MA, Alquezar A, Piñera P, Lázaro Aragues P, Llorens P, Herrero P, Jacob J, Gil V, Fernández C, Bueno H, Miró Ò; Representing the members of the OAK Register Investigators. Impact of Frailty and Disability on 30-Day Mortality in Older Patients With Acute Heart Failure. *American Journal of Cardiology*. 2017;120:1151-7. IF: 3.398. Article.
- Chin CT, Ong TK, Krittayaphong R, Lee SW, Sawhney JPS, Kim HS, Garcia AA, Bueno H, Pocock SJ, Nhan VT, Vega A, Hayashi N, Huo Y. Characteristics and outcomes of medically managed patients with non-ST-segment elevation acute coronary syndromes: Insights from the multinational EPICOR Asia study. *International Journal of Cardiology*. 2017;243:15-20. IF: 6.189. Article.
- Arroyo-Gallego T, Ledesma-Carbayo MJ, Sanchez-Ferro A, Butterworth I, Mendoza CS, Matarazzo M, Montero P, Lopez-Blanco R, Puertas-Martin V, Trincado R, Giancardo L. Detection of Motor Impairment in Parkinson's Disease Via Mobile Touchscreen Typing. *IEEE Transactions on Biomedical Engineering*. 2017;64:1994-2002. IF: 3.577. Article.
- Cortés-Beringola A, Fitzsimons D, Pelliccia A, Moreno G, Martín-Asenjo R, Bueno H. Planning secondary prevention: Room for improvement. *European Journal of Preventive Cardiology*. 2017;24:22-2. IF: 3.606. Article.
- Ohman EM, Roe MT, Steg PG, James SK, Povsic TJ, White J, Rockhold F, Plotnikov A, Mundl H, Strony J, Sun X, Husted S, Tendera M, Montalescot G, Bahit MC, Ardissino D, Bueno H, Claeys MJ, Nicolau JC, Cornel JH, Goto S, Kiss RG, Güray Ü, Park DW, Bode C, Welsh RC, Gibson CM.

Clinically significant bleeding with low-dose rivaroxaban versus aspirin, in addition to P2Y12 inhibition, in acute coronary syndromes (GEMINI-ACS-1): a double-blind, multicentre, randomised trial. *Lancet.* 2017;389:1799-808. IF: 47.831. Article.

- Bebb O, Hall M, Fox KAA, Dondo TB, Timmis A, Bueno H, Schiele F, Gale CP. Performance of hospitals according to the ESC ACCA quality indicators and 30-day mortality for acute myocardial infarction: national cohort study using the United Kingdom Myocardial Ischaemia National Audit Project (MINAP) register. *European Heart Journal.* 2017;38:974-82. IF: 19.651. Article.
- Díaz-Antón B, Alonso-Deniz G, Perez-Vela JL, Molina-Martín de Nicolás J, Rubio-Alonso B, Jurado-Román A, Miguel-Gutierrez A, Martin-Asenjo R. 'Jamaican Stone': A potentially lethal remedy for delaying ejaculation. *Revista Portuguesa de Cardiología.* 2017;36(2):143.e1-143.e4. IF: 1.195. Article.
- Hurtado-Roca Y, Bueno H, Fernandez-Ortiz A, Ordovas JM, Ibañez B, Fuster V, Rodriguez-Artalejo F, Laclaustra M. Oxidized LDL Is Associated with Metabolic Syndrome Traits Independently of Central Obesity and Insulin Resistance. *Diabetes.* 2017;66:474-82. IF: 8.684. Article.
- Lu Y, Zhou S, Dreyer RP, Caulfield M, Spatz ES, Geda M, Lorenze NP, Herbert P, D'Onofrio G, Jackson EA, Lichtman JH, Bueno H, Spertus JA, Krumholz HM. Sex differences in lipid profiles and treatment utilization among young adults with acute myocardial infarction: Results from the VIRGO study. *American Heart Journal.* 2017;183:74-84. IF: 4.436. Article.
- Xu X, Bao H, Strait KM, Edmondson DE, Davidson KW, Beltrame JF, Bueno H, Lin H, Dreyer RP, Brush JE, Spertus JA, Lichtman JH, D'Onofrio G, Krumholz HM. Perceived Stress After Acute Myocardial Infarction: A Comparison Between Young and Middle-Aged Women Versus Men. *Psychosomatic Medicine.* 2017;79:50-8. IF: 3.863. Article.
- Valgimigli M, Bueno H, Byrne RA, Collet JP, Costa F, Jeppsson A, Jüni P, Kastrati A, Kohl P, Mauri L, Montalescot G, Neumann FJ, Petricevic M, Roffi M, Steg PG, Windecker S, Zamorano JL. 2017 ESC focused update on dual antiplatelet therapy in coronary artery disease developed in collaboration with EACTS. *Kardiologia Polska.* 2017;75:1217-99. IF: 1.341. Article.
- Minges KE, Strait KM, Owen N, Dunstan DW, Camhi SM, Lichtman J, Geda M, Dreyer RP, Bueno H, Beltrame JF, Curtis JP, Krumholz HM. Gender differences in physical activity following acute myocardial infarction in adults: A prospective, observational study. *European Journal of Preventive Cardiology.* 2017;24:192-203. IF: 3.606. Article.
- Claeys MJ, Ahrens I, Sinnaeve P, Diletti R, Rossini R, Goldstein P, Czerwinski K, Bueno H, Lettino M, Münz T, Zeymer U. Editor's Choice-The organization of chest pain units: Position statement of the Acute Cardiovascular Care Association. *European Heart Journal-Acute Cardiovascular Care.* 2017;6:203-11. IF: N/A. Article.
- Beygui F, Castren M, Brunetti ND, Rosell-Ortiz F, Christ M, Zeymer U, Huber K, Folke F, Svensson L, Bueno H, Van't Hof A, Nikolaou N, Nibbe L, Charpentier S, Swahn E, Tubaro M, Goldstein P. [Pre-hospital management of patients with chest pain and/or dyspnoea of cardiac origin]. Recent Progress in Medicina. 2017;108:27-51. IF: N/A. Article.
- Piepoli MF, Corrà U, Dendale P, Frederix I, Prescott E, Schmid JP, Cupples M, Deaton C, Doherty P, Giannuzzi P, Graham I, Hansen TB, Jennings C, Landmesser U, Marques-Vidal P, Vrints C, Walker D, Bueno H, Fitzsimons D, Pelliccia A. Challenges in secondary prevention after acute myocardial infarction: A call for action. *European Journal of Cardiovascular Nursing.* 2017;16:369-80. IF: 2.763. Review.
- Piepoli MF, Corrà U, Dendale P, Frederix I, Prescott E, Schmid JP, Cupples M, Deaton C, Doherty P, Giannuzzi P, Graham I, Hansen TB, Jennings C, Landmesser U, Marques-Vidal P, Vrints C, Walker D, Bueno H, Fitzsimons D, Pelliccia A. Challenges in secondary prevention after acute myocardial infarction: A call for action. *European Heart Journal-Acute Cardiovascular Care.* 2017;6:299-310. IF: N/A. Review.
- Bueno H, Martín-Asenjo R. Acute heart failure after STEMI. Still a problem, still an opportunity for improving care quality. *International Journal of Cardiology.* 2017;248:274-5. IF: 6.189. Editorial Material.
- Smolderen KG, Spertus JA, Gosch K, Dreyer RP, D'Onofrio G, Lichtman JH, Geda M, Beltrame J, Safdar B, Bueno H, Krumholz HM. Depression Treatment and Health Status Outcomes in Young Patients With Acute Myocardial Infarction Insights from the VIRGO Study (Variation in Recovery: Role of Gender on Outcomes of Young AMI Patients). *Circulation.* 2017;135:1762-4. IF: 19.309. Editorial Material.
- Arribas F, Roldan I, Luis Merino J, Roldan V, Arenal A, Tamargo J, Ruiz-Granell R, Mont LI, Anguita M, Marin F, Alonso VB, Baron G, Cosin Sales EJ, Diaz Infante E, Escobar Cervantes C, Ferreiro Gutierrez JL, Guerra Ramos JM, Jimenez Candil FJ, Perez Castellano N, Sambola Ayala A, Tello Montoliu A, San Roman A, Alfonso F, Arribas F, Evangelista A, Ferreira I, Jimenez M, Marin F, Perez de Isla L, Rodriguez Padial L, Sanchez PL, Sionis A, Vazquez R; Grp SEC Trabajo Guia ESC 2016 Diag, ESC 2016 Diag Tratamiento Fibrilac, Comm Guias SEC. Comments on the 2016 ESC Guidelines for the Management of Atrial Fibrillation. *Revista Espanola de Cardiologia.* 2017;70:2-8. IF: 4.485. Editorial Material.
- Alfonso F, Sionis A, Bueno H, Ibanez B, Sabate M, Cequier A, Barrabes J, Sanchis J, Abu-Assi E, Aboal J, Lopez de Sa E, Martin Asenjo R, Pan M, Ojeda S, Perez de Prado A, Jimenez Quevedo P, Serrador A, San Roman A, Alfonso F, Evangelista A, Ferreira-Gonzalez I, Jimenez Navarro M, Marin F, Perez de Isla L, Rodriguez Padial L, Sanchez Fernandez PL, Sionis A, Vazquez Garcia R; Grp Trabajo SEC para guia ESC 2017, Revisores expertos para guia, Comm Guias SEC. Comments on the 2017 ESC Guidelines for the Management of Acute Myocardial Infarction in Patients Presenting with ST-segment Elevation 2017. *Revista Espanola de Cardiologia.* 2017;70:1039-45. IF: 4.485. Editorial Material.
- Fontenla A, Villagraz L, Lozano Á, López-Gil M. Ivabradine as an Atrioventricular Node Modulator. Promise or Reality? Response. *Revista Espanola de Cardiologia.* 2017;70:1024. IF: 4.485. Letter.
- Fontenla A, Villagraz L, de Juan J, Lozano Á, Giacomani S, López-Gil M. Ivabradine as an Alternative to AV Node Ablation in a Patient With Permanent Atrial Fibrillation. *Revista Espanola de Cardiologia.* 2017;70:1019-20. IF: 4.485. Letter.
- de Lorenzo-Pinto A, Bueno H. Initiatives to Achieve Excellence in the Care of Acute Coronary Syndrome. Response. *Revista Espanola de Cardiologia.* 2017;70:1027-8. IF: 4.485. Letter.
- Santos-Lozano A, Martín-Hernández J, Baladrón C, Turrado-Sevilla MÁ, Arrarás-Flores Á, Villacastín JP, Boraita A, Bueno H, Lucia A. Sudden Cardiac Death in Professional Soccer Players. *Journal of the American College of Cardiology.* 2017;70:1420-1. IF: 19.896. Letter.
- Ortiz-Bautista C, Bueno H, Escribano-Subías P. Myocardial injury in severe heritable pulmonary veno-occlusive disease. *Journal of Heart and Lung Transplantation.* 2017;36:818-20. IF: 7.114. Letter

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Álvaro Roldán Sevilla
Title: Valoración clínica del análisis diario del síndrome de apnea obstructiva del sueño registrado mediante dispositivos de estimulación cardíaca.
- Director/s:** Adolfo Fontenla Cerezuela
- Date Defended:** 03/01/2017
- University:** Universidad Complutense de Madrid

PRIZES AND AWARDS

- Prize from Sección de Estimulación Cardiaca for the best article published in 2016 in a high-impact journal: "Atrial rate-responsive pacing and incidence of sustained atrial arrhythmias in patients with implantable cardioverter defibrillators", *Pacing Clin Electrophysiol* 2016 Jun; 39(6):548-56. Prize winner: Adolfo Fontenla Cerezuela. Prize awarded by the Sociedad Española de Cardiología, 11/08/2017.

- Prize from Sociedad Española de Cardiología for the research project: "Evaluación y mejora de la seguridad del paciente en un Servicio de Cardiología". Winning researcher: Roberto Martín Asenjo

RESEARCH ON

CARDIOVASCULAR IMAGING



PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	5	33.108
Total	5	33.108

- Aguero J, Galan-Arriola C, Fernandez-Jimenez R, Sanchez-Gonzalez J, Ajmone N, Delgado V, Solis J, Lopez GJ, de Molina-Iracheta A, Hajjar RJ, Bax JJ, Fuster V, Ibáñez B. Atrial Infarction and Ischemic Mitral Regurgitation Contribute to Post-MI Remodeling of the Left Atrium. *Journal of the American College of Cardiology*. 2017;70:2878-89. IF: 19.896. Article.
- Quezada Loaiza CA, Velázquez Martín MT, Jiménez López-Guarch C, Ruiz Cano MJ, Navas Tejedor P, Carreira PE, Flox Camacho Á, de Pablo Gafas A, Delgado Jiménez JF, Gómez Sánchez MÁ, Escribano Subías P. Trends in Pulmonary Hypertension over a Period of 30 Years: Experience From a Single Referral Centre. *Revista Espanola de Cardiologia*. 2017;70:915-23. IF: 4.485. Article.
- Gomez-Mariscal E, Garcia-Tejada J, Garcia-Martin EP, Miguel-Gutierrez A. Management of a severely calcified neatherosclerosis plaque analyzed by intravascular ultrasound. *Hellenic Journal of Cardiology*. 2017;58:294-6. IF: 1.343. Article.
- González-Saiz L, Fiúza-Luces C, Sanchis-Gomar F, Santos-Lozano A, Quezada-Loaiza CA, Flox-Camacho A, Munguía-

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Izquierdo D, Ara I, Santalla A, Morán M, Sanz-Ayan P, Escribano-Subías P, Lucia A. Benefits of skeletal-muscle exercise training in pulmonary arterial hypertension: The WHOLEi+12 trial. International Journal of Cardiology. 2017;231:277-83. IF: 6.189. Article.

Díaz-Antón B, Alonso-Deniz G, Perez-Vela JL, Molina-Martín de Nicolás J, Rubio-Alonso B, Jurado-Román A, Miguel-Gutierrez A, Martin-Asenjo R. 'Jamaican Stone': A potentially lethal remedy for delaying ejaculation. Revista Portuguesa de Cardiología. 2017;36(2):143.e1-143.e4. IF: 1.195. Article.

Santos-Lozano A, Sanz-Ayan P, González-Saiz L, Quezada-Loaiza CA, Fiua-Luces C, Flox-Camacho A, Munguía-Izquierdo D, Santalla A, Morán M, Escribano-Subías P, Lucia A. Effects of an 8-month exercise intervention on physical capacity, NT-proBNP, physical activity levels and quality of life data in patients with pulmonary arterial hypertension by NYHA class. Data in Brief. 2017;12:37-41. IF: N/A. Article.

HEART FAILURE – PULMONARY HYPERTENSION



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	2
TOTAL		3

- Title: Bases genético-moleculares de la hipertensión arterial pulmonar y su expresión fenotípica en la población española.
Principal Investigator: M^a del Pilar Escribano Subiás
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: M^a del Pilar Escribano Subiás
Funding Body: GlaxoSmithKline, S.A.
Start date: 20/04/2015
End date: 19/12/2018

- Title: Farmacogenómica en la Hipertensión Arterial Pulmonar: Estudio de la Correlación Genotípica-Fenotípica. Principal Investigator: Mª del Pilar Escribano Subías Funding Body: Ferrer Internacional, S.A. Start date: 20/12/2013 End date: 19/12/2016, extended to 19/12/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	16	85.067
Reviews	2	3.557
Editorials	1	1.195
Total	19	89.819
Letters	5	37.105
Total	24	126.924

- González-Saiz L, Fiua-Luces C, Sanchis-Gomar F, Santos-Lozano A, Quezada-Loaiza CA, Flox-Camacho A, Munguía-García-Gigorro R, Renes-Carreño E, Pérez-Vela JL, Marín-Mateos H, Gutiérrez J, Corrés-Peiretti MA, Delgado JF, Pérez-de la Sota E, Cortina-Romero JM, Montejo-González JC. Mechanical support with venoarterial extracorporeal membrane oxygenation (ECMO-VA): Short-term and long-term prognosis after a successful weaning. *Medicina Intensiva*. 2017;41:513-22. IF: 1.231. Article.
- González-Vilchez F, Gómez-Bueno M, Almenar-Bonet L, Crespo-Leiro MG, Arizón Del Prado JM, Delgado-Jiménez J, Sousa-Casasnovas I, Brossa-Loidi V, Sobrino-Márquez JM, González-Costelo J; Spanish Heart Transplant Teams. Spanish Heart Transplant Registry. 28th Official Report of the Spanish Society of Cardiology Working Group on Heart Failure (1984-2016). *Revista Espanola de Cardiologia*. 2017;70:1098-109. IF: 4.485. Article.
- López-Meseguer M, Quezada CA, Ramon MA, Lázaro M, Dos L, Lara A, López R, Blanco I, Escribano P, Roman A; REHAP Investigators. Lung and heart-lung transplantation in pulmonary arterial hypertension. *PLoS One*. 2017;12(11):e0187811. IF: 2.806. Article.
- Quezada Loaiza CA, Velázquez Martín MT, Jiménez López-Guarch C, Ruiz Cano MJ, Navas Tejedor P, Carreira PE, Flox Camacho Á, de Pablo Gafas A, Delgado Jiménez JF, Gómez Sánchez MÁ, Escribano Subías P. Trends in Pulmonary Hypertension Over a Period of 30 Years: Experience From a Single Referral Centre. *Revista Espanola de Cardiología*. 2017;70:915-23. IF: 4.485. Article.
- Pose A, Almenar L, Manzano L, Gavira JJ, López Granados A, Delgado J, Aramburu O, Arévalo JC, Méndez M, Comín J, Manito N. Hyponatraemia and congestive heart failure refractory to diuretic treatment. Utility of tolvaptan. *Medicina Clinica*. 2017;149:1-8. IF: 1.125. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Revista Clinica Espanola. 2017;217:398-404. IF: 0.971. Article.
- Alfonso F, Cuesta J, Perez-Vizcayno MJ, del Blanco BG, Rumoroso JR, Bosa F, de Prado AP, Masotti M, Moreno R, Cequier A, Gutierrez H, Touchard AG, Lopez-Minguez JR, Zueco J, Martí V, Velazquez M, Moris C, Bastante T, Garcia-Guimaraes M, Rivero F, Fernandez C; Auspices Interventional Cardiolog. Bioresorbable Vascular Scaffolds for Patients with In-Stent Restenosis The RIBS VI Study. *JACC-Cardiovascular Interventions*. 2017;10:1841-51. IF: 8.841. Article.
- Polzl G, Altenberger J, Baholli L, Beltran P, Borbely A, Comin-Colet J, Delgado JF, Fedele F, Fontana A, Frühwald F, Giamouzis G, Giannakoulas G, Garcia-Gonzalez MJ, Gustafsson F, Kaikkonen K, Kivikko M, Kubica J, von Lewinski D, Lofman I, Malfatto G, Manito N, Martinez-Selles M, Masip J, Merkely B, Morandi F, Molgaard H, Oliva F, Pantev E, Papp Z, Perna GP, Pfister R, Piazza V, Bover R, Rangel-Sousa D, Recio-Mayoral A, Reinecke A, Rieth A, Sarapohja T, Schmidt G, Seidel M, Stork S, Vrtovec B, Wikstrom G, Yerly P, Pollesello P. Repetitive use of levosimendan in advanced heart failure: need for stronger evidence in a field in dire need of a useful therapy. *International Journal of Cardiology*. 2017;243:389-95. IF: 6.189. Article.
- Pascual-Figal DA, Ferrero-Gregori A, Gomez-Otero I, Vazquez R, Delgado-Jimenez J, Alvarez-Garcia J, Gimeno-Blanes JR, Worner-Diz F, Bardají A, Alonso-Pulpon L, Gonzalez-Juanatey JR, Cinca J; MUSIC and REDINSCOR I research groups. Mid-range left ventricular ejection fraction: Clinical profile and cause of death in ambulatory patients with chronic heart failure. *International Journal of Cardiology*. 2017;240:265-70. IF: 6.189. Article.
- López Gude MJ, Pérez de la Sota E, Pérez Vela JL, Centeno Rodríguez J, Muñoz Guijosa C, Velázquez MT, Alonso Chaterina S, Hernández González I, Escribano Subías P, Cortina Romero JM. Pulmonary endarterectomy outputs in chronic thromboembolic pulmonary hypertension. *Medicina Clinica*. 2017;149:1-8. IF: 1.125. Article.
- Gómez-Otero I, Ferrero-Gregori A, Varela Román A, Seijas Amigo J, Pascual-Figal DA, Delgado Jiménez J, Álvarez-García J, Fernández-Avilés F, Worner Diz F, Alonso-Pulpón L, Cinca J, González-Juanatey JR; Red Española de Insuficiencia Cardiaca researchers (REDINSCOR II). Mid-range Ejection Fraction Does Not Permit Risk Stratification Among Patients Hospitalized for Heart Failure. *Revista Espanola de Cardiología*. 2017;70:338-46. IF: 4.485. Article.
- Álvarez-García J, Salamanca-Bautista P, Ferrero-Gregori A, Montero-Pérez-Barquero M, Puig T, Aramburu-Bodas Ó, Vázquez R, Formiga F, Delgado J, Arias-Jiménez JL, Vives-Borrás M, Cerqueiro González JM, Manzano L, Cinca J; REDINSCOR and RICA groups. Prognostic Impact of Physician Specialty on the Prognosis of Outpatients With Heart Failure: Propensity Matched Analysis of the REDINSCOR and RICA Registries. *Revista Espanola de Cardiología*. 2017;70:347-54. IF: 4.485. Article.
- González-Saiz L, Fiua-Luces C, Sanchis-Gomar F, Santos-Lozano A, Quezada-Loaiza CA, Flox-Camacho A, Munguía-Izquierdo D, Ara I, Santalla A, Morán M, Sanz-Ayan P, Escribano-Subías P, Lucia A. Benefits of skeletal-muscle exercise training in pulmonary arterial hypertension: The WHOLEi+12 trial. *International Journal of Cardiology*. 2017;231:277-83. IF: 6.189. Article.
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- Pose A, Almenar L, Gavira JJ, Lopez-Granados A, Blasco T, Delgado J, Aramburu O, Rodriguez A, Manzano L, Manito N. Benefit of tolvaptan in the management of hyponatraemia in patients with diuretic-refractory congestive heart failure: the SEMI-SEC project. *Esc Heart Failure*. 2017;4:130-7. IF: N/A. Article.
- Del Pozo R, Hernandez Gonzalez I, Escribano-Subias P. The prostacyclin pathway in pulmonary arterial hypertension: a clinical review. *Expert Review of Respiratory Medicine*. 2017;11:491-503. IF: 2.432. Review.
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- Ortiz-Bautista C, Puerto García-Martín E, Morán-Fernández L, Ponz-de Antonio I, Rodríguez-Chaverri A, Delgado-
- Jiménez JF. Early restrictive-constrictive physiology in a cardiac allograft recipient. *Revista Portuguesa de Cardiología*. 2017;36:575-6. IF: 1.195. Editorial Material.
- Montero Cabezas JM, Nuche Berenguer J, Velázquez Martín MT, Escribano Subías P. Left Main Extrinsic Compression in Pulmonary Arterial Hypertension from Identification to Percutaneous Coronary Intervention Optimization. *Journal of the American College of Cardiology*. 2017;70:2459-60. IF: 19.896. Letter.
- Fontenla A, Villagraz L, de Juan J, Lozano Á, Giacoman S, López-Gil M. Ivabradine as an Alternative to AV Node Ablation in a Patient With Permanent Atrial Fibrillation. *Revista Espanola de Cardiología*. 2017;70:1019-20. IF: 4.485. Letter.
- Ortiz-Bautista C, Hernández-González I, Escribano-Subías P. Venoocclusive disease and systemic sclerosis Reply. *Medicina Clinica*. 2017;149:320-1. IF: 1.125. Letter.
- García-Cosío Carmena MD, Roig Mingue E, Ferrero-Gregori A, Vázquez García R, Delgado Jiménez J, Cinca J; Investigators of the REDINSCOR research network. Prognostic Implications of Functional Mitral Regurgitation in Patients With Heart Failure and Reduced Ejection Fraction. *Revista Espanola de Cardiología*. 2017;70:785-7. IF: 4.485. Letter.
- Ortiz-Bautista C, Bueno H, Escribano-Subías P. Myocardial injury in severe heritable pulmonary veno-occlusive disease. *Journal of Heart and Lung Transplantation*. 2017;36:818-20. IF: 7.114. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Paula Navas Tejedor
Title: Molecular Genetics of Pulmonary Arterial Hypertension and Clinical Implications in 2015: Beyond BMPR2.
Director/s: José Luis Zamorano Gómez, M^a del Pilar Escribano Subiás
Date Defended: 10/10/2017
University: Universidad de Alcalá de Henares

PRIZES AND AWARDS

- Third Prize for the Best Reports at the Congreso de la SEC 2017, for the report entitled "Resultados y seguridad de la angioplastia con balón de las arterias pulmonares en la hipertensión pulmonar tromboembólica crónica"
Winning researcher: M^a Teresa Velázquez Martín

TRANSLATIONAL RESEARCH IN HYPERTENSION AND CARDIORENAL DISEASE



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	Fundación SENEFRO	1
Competitive	Fundación Casa del Corazón	1
Competitive	Fundación Renal Iñigo Álvarez de Toledo	1
TOTAL		6

- 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: 31/12/2018
- Title: Abordaje integral de la hipertensión arterial resistente: mejora del diagnóstico y tratamiento y búsqueda 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: 01/02/2014
End date: 31/12/2016, extended to 30/06/2018

- 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, extended to 30/06/2019

- 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: 31/12/2018

- Title: Papel del factor de crecimiento de fibroblasto (fgf)-23 en las arritmias ventriculares: nuevo mediador en el acoplamiento excitación-contracción cardiaca.
Principal Investigator: Gema Ruiz Hurtado
Funding Body: Fundación Casa del Corazón
Start date: 07/07/2017
End date: 31/12/2021

- Title: Papel del FGF-23 en la función cardíaca de los pacientes en diálisis y su relación con la incidencia de arritmias.
Principal Investigator: Gema Ruiz Hurtado
Funding Body: Fundación Renal Iñigo Álvarez de Toledo
Start date: 10/11/2017
End date: 31/12/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	20	133.268
Reviews	6	39.121
Editorials	5	82.005
Total	31	254.394
Letters	1	4.085
Total	32	258.479

- Armario P, Calhoun DA, Oliveras A, Blanch P, Vinyoles E, Banegas JR, Segura J, RuIlope LM, Dudenbostel T, de la Sierra A. Prevalence and Clinical Characteristics of Refractory Hypertension. *Journal of the American Heart Association*. 2017;6(12):e007365. IF: 4.863. Article.
- de la Sierra A, Vinyoles E, Banegas JR, Segura J, Gorostidi M, de la Cruz JJ, RuIlope LM. Prevalence and clinical characteristics of white-coat hypertension based on different definition criteria in untreated and treated patients. *Journal of Hypertension*. 2017;35:2388-94. IF: 4.085. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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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- Karpetas A, Loutradis C, Bikos A, Tzannis G, Koutroumpas G, Lazaridis AA, Mavromatidis K, Liakopoulos V, Papagianni A, Zebekakis P, Ruilope LM, Parati G, Sarafidis PA. Blood pressure variability is increasing from the first to the second day of the interdialytic interval in hemodialysis patients. *Journal of Hypertension*. 2017;35:2517-26. IF: 4.085. Article.
- Mahfoud F, Schmieder RE, Azizi M, Pathak A, Sievert H, Tsiofis C, Zeller T, Bertog S, Blankestijn PJ, Böhm M, Burnier M, Chatellier G, Durand Zaleski I, Ewen S, Grassi G, Joner M, Kjeldsen SE, Lobo MD, Lotan C, Felix Lüscher T, Parati G, Rossignol P, Ruilope L, Sharif F, van Leeuwen E, Volpe M, Windecker S, Witkowski A, Wijns W. Proceedings from the 2nd European Clinical Consensus Conference for device-based therapies for hypertension: state of the art and considerations for the future. *European Heart Journal*. 2017;38:3272-81. IF: 19.651. Article.
- Calvo-Bonacho E, Catalina-Romero C, Cabrera M, Fernández-Labandera C, Sánchez Chaparro MÁ, Brotons C, Ruilope LM. Association Between Improvement in Cardiovascular Risk Profile and Changes in Sickness Absence: Results of the ICARIA Study. *Revista Española de Cardiología*. 2017;70:941-51. IF: 4.485. Article.
- Martín-Lorenzo M, Martínez PJ, Baldan-Martin M, Ruiz-Hurtado G, Prado JC, Segura J, de la Cuesta F, Barderas MG, Vivanco F, Ruilope LM, Alvarez-Llamas G. Citric Acid Metabolism in Resistant Hypertension: Underlying Mechanisms and Metabolic Prediction of Treatment Response. *Hypertension*. 2017;70:1049-56. IF: 6.857. Article.
- Ruiz-Hurtado G, Banegas JR, Sarafidis PA, Volpe M, Williams B, Ruilope LM. Has the SPRINT trial introduced a new blood-pressure goal in hypertension? *Nature Reviews Cardiology*. 2017;14:560-6. IF: 14.299. Article.
- Martín-Lorenzo M, Gonzalez-Calero L, Martínez PJ, Baldan-Martin M, Lopez JA, Ruiz-Hurtado G, de la Cuesta F, Segura J, Vazquez J, Vivanco F, Barderas MG, Ruilope LM, Alvarez-Llamas G. Immune system deregulation in hypertensive patients chronically RAS suppressed developing albuminuria. *Scientific Reports*. 2017;7:8894. IF: 4.259. Article.
- Pulido-Olmo H, Rodríguez-Sánchez E, Navarro-García JA, Barderas MG, Álvarez-Llamas G, Segura J, Fernández-Alfonso M, Ruilope LM, Ruiz-Hurtado G. Rapid, Automated, and Specific Immunoassay to Directly Measure Matrix Metalloproteinase-9-Tissue Inhibitor of Metalloproteinase-1 Interactions in Human Plasma Using AlphaLISA Technology: A New Alternative to Classical ELISA. *Frontiers in Immunology*. 2017;8:853. IF: 6.429. Article.
- Gonzalez-Calero L, Martínez PJ, Martín-Lorenzo M, Baldan-Martin M, Ruiz-Hurtado G, la Cuesta F, Calvo E, Segura J, Lopez JA, Vázquez J, Barderas MG, Ruilope LM, Vivanco F, Alvarez-Llamas G. Urinary exosomes reveal protein signatures in hypertensive patients with albuminuria. *Oncotarget*. 2017;8:44217-31. IF: 5.168. Article.
- División-Garrote JA, Ruilope LM, de la Sierra A, de la Cruz JJ, Vinyoles E, Gorostidi M, Escobar-Cervantes C, Velilla-Zancada SM, Segura J, Banegas JR. Magnitude of Hypotension Based on Office and Ambulatory Blood Pressure Monitoring: Results From a Cohort of 5066 Treated Hypertensive Patients Aged 80 Years and Older. *Journal of the American Medical Directors Association*. 2017;18(5):452.e1-452.e6. IF: 5.775. Article.
- Vinyoles E, de la Sierra A, Roso-Llorach A, Banegas JR, de la Cruz JJ, Gorostidi M, Segura J, División JA, Ruiz-Hurtado G, Ruilope LM; Spanish ABPM Registry Investigators. 24-h pulse pressure cutoff point definition by office pulse pressure in a population of Spanish older hypertensive patients. *Journal of Hypertension*. 2017;35:1011-8. IF: 4.085. Article.
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- de la Cuesta F, Baldan-Martin M, Moreno-Luna R, Alvarez-Llamas G, Gonzalez-Calero L, Mourino-Alvarez L, Sastre-Oliva T, López JA, Vázquez J, Ruiz-Hurtado G, Segura J, Vivanco F, Ruilope LM, Barderas MG. Kalirin and CHD7: novel endothelial dysfunction indicators in circulating extracellular vesicles from hypertensive patients with albuminuria. *Oncotarget*. 2017;8:15553-62. IF: 5.168. Article.
- Ruiz-Hurtado G, García-Prieto CF, Pulido-Olmo H, Velasco-Martín JP, Villa-Valverde P, Fernández-Valle ME, Boscá L, Fernández-Velasco M, Regadera J, Somoza B, Fernández-Alfonso MS. Mild and Short-Term Caloric Restriction Prevents Obesity-Induced Cardiomyopathy in Young Zucker Rats without Changing in Metabolites and Fatty Acids Cardiac Profile. *Frontiers in Physiology*. 2017;8:42. IF: 4.134. Article.
- Banegas JR, Ruilope LM, de la Sierra A, Vinyoles E, Gorostidi M, de la Cruz JJ, Segura J, Oliveras A, Martell N, García-Puig J, Williams B. Clinic Versus Daytime Ambulatory Blood Pressure Difference in Hypertensive Patients The Impact of Age and Clinic Blood Pressure. *Hypertension*. 2017;69:211-9. IF: 6.857. Article.
- Val-Blasco A, Piedras MJ, Ruiz-Hurtado G, Suárez N, Prieto P, González-Ramos S, Gómez-Hurtado N, Delgado C, Pereira L, Benito G, Zaragoza C, Domenech N, Crespo-Leiro MG, Vasquez-Echeverri D, Nuñez G, Lopez-Collazo E, Boscá L, Fernández-Velasco M. Role of NOD1 in Heart Failure Progression via Regulation of Ca²⁺ Handling. *Journal of the American College of Cardiology*. 2017;69:423-33. IF: 19.896. Article.
- Linz D, Mancia G, Mahfoud F, Narkiewicz K, Ruilope L, Schlaich M, Kindermann I, Schmieder RE, Ewen S, Williams B, Böhm M; Global SYMPLICITY Registry Investigators. Renal artery denervation for treatment of patients with self-reported obstructive sleep apnea and resistant hypertension: results from the Global SYMPLICITY Registry. *Journal of Hypertension*. 2017;35:148-53. IF: 4.085. Article.
- Rodriguez-Padial L, Akerström F, Barderas MG, Vivanco F, Arias MA, Segura J, Ruilope LM. Progression of Renal Insufficiency in Patients with Essential Hypertension Treated with Renin Angiotensin Aldosterone System Blockers: An Electrocardiographic Correlation. *Diseases* (Basel, Switzerland). 2017;Dec;5(4):33. IF: N/A. Article.
- Marquez DF, Ruiz-Hurtado G, Ruilope L. The impact of antihypertensives on kidney disease. *F1000Research*. 2017;6:611. IF: N/A. Article.
- Ruilope LM, Chagas AC, Brandão AA, Gómez-Berroterán R, Alcalá JJ, Paris JV, Cerdá JJ. Hypertension in Latin America: Current perspectives on trends and characteristics. *Hipertension y Riesgo Vascular*. 2017;34:50-6. IF: N/A. Article.
- Baldan-Martin M, de la Cuesta F, Alvarez-Llamas G, Ruiz-Hurtado G, Ruilope LM, Barderas MG. Proteomic Analysis of Blood Extracellular Vesicles in Cardiovascular Disease by LC-MS/MS Analysis. *Methods in Molecular Biology* (Clifton, N.J.). 2017;1619:141-9. IF: N/A. Article.
- Boccara F, Dent R, Ruilope L, Valensi P. Practical Considerations for the Use of Subcutaneous Treatment in the Management of Dyslipidaemia. *Advances in Therapy*. 2017;34:1876-96. IF: 2.709. Review.
- Sarafidis PA, Lazaridis AA, Ruiz-Hurtado G, Ruilope LM. Blood pressure reduction in diabetes: lessons from ACCORD, SPRINT and EMPA-REG OUTCOME. *Nature Reviews Endocrinology*. 2017;13:365-74. IF: 18.318. Review.

- Sarafidis PA, Alexandrou ME, Ruilope LM. A review of chemical therapies for treating diabetic hypertension. *Expert Opinion on Pharmacotherapy*. 2017;18:909-23. IF: 3.894. Review.
- Ruilope LM, Tamargo J. Aldosterone a Relevant Factor in the Beginning and Evolution of Arterial Hypertension. *American Journal of Hypertension*. 2017;30:468-9. IF: 3.541. Review.
- Tamargo J, Rosano GM, Delpón E, Ruilope L, López-Sendón J. Pharmacological reasons that may explain why randomized clinical trials have failed in acute heart failure syndromes. *International Journal of Cardiology*. 2017;233:1-11. IF: 6.189. Review.
- Sarafidis PA, Persu A, Agarwal R, Burnier M, de Leeuw P, Ferro CJ, Halimi JM, Heine GH, Jadoul M, Jarraya F, Kanbay M, Mallamaci F, Mark PB, Ortiz A, Parati G, Pontremoli R, Rossignol P, Ruilope L, Van der Niepen P, Vanholder R, Verhaar MC, Wiecek A, Wuerzner G, London GM, Zoccali C. Hypertension in dialysis patients: a consensus document by the European Renal and Cardiovascular Medicine (EURECA-m) working group of the European Renal Association-European Dialysis and Transplant Association (ERA-EDTA) and the Hypertension and the Kidney working group of the European Society of Hypertension (ESH). *Nephrology Dialysis Transplantation*. 2017;32:620-40. IF: 4.470. Review.
- Ruiz-Hurtado G, Ruilope LM. Advantages of sacubitril/valsartan beyond blood pressure control in arterial hypertension. *European Heart Journal*. 2017;38:3318-20. IF: 19.651. Editorial Material.
- Santos-Lozano A, Lucia A, Ruilope L, Pitsiladis YP. Born to run: our future depends on it. *Lancet*. 2017;390: 635-6. IF: 47.831. Editorial Material.
- Messerli FH, Hofstetter L, Agabiti-Rosei E, Burnier M, Elliott WJ, Franklin SS, Grodzicki T, Kario K, Kjeldsen SE, Kostis JB, Laurent S, Leenen FH, Lund-Johansen P, Mancia G, Narkiewicz K, Papademetriou V, Parati G, Poulter N, Redon J, Rimoldi SF, Ruilope LM, Schiffrin EL, Schmieder RE, Schwartz AB, Sever P, Sowers JR, Staessen JA, Wang J, Weber M, Williams B, de Leeuw PW. Expertise: no longer a sine qua non for guideline authors? *Journal of Hypertension*. 2017;35:1564-6. IF: 4.085. Editorial Material.
- Messerli FH, Hofstetter L, Agabiti-Rosei E, Burnier M, Elliott WJ, Franklin SS, Grodzicki T, Kario K, Kjeldsen SE, Kostis JB, Laurent S, Leenen FH, Lund-Johansen P, Mancia G, Narkiewicz K, Papademetriou V, Parati G, Poulter N, Redon J, Rimoldi SF, Ruilope LM, Schiffrin EL, Schmieder RE, Schwartz AB, Sever P, Sowers JR, Staessen JA, Wang J, Weber M, Williams B. Expertise: No Longer a Sine Qua Non for Guideline Authors? *Hypertension*. 2017;70:235-7. IF: 6.857. Editorial Material.
- Ruiz-Hurtado G, Ruilope LM. Sacubitril/valsartan in the treatment of arterial hypertension: an unaccomplished promise? *Hypertension Research*. 2017;40:439-40. IF: 3.581. Editorial Material.
- Messerli FH, Hofstetter L, Agabiti-Rosei E, Burnier M, Elliott WJ, Franklin SS, Grodzicki T, Kario K, Kjeldsen SE, Kostis JB, Laurent S, Leenen FH, de Leeuw PW, Lund-Johansen P, Mancia G, Narkiewicz K, Papademetriou V, Parati G, Poulter N, Redon J, Rimoldi SF, Ruilope LM, Schiffrin EL, Schmieder RE, Schwartz AB, Sever P, Sowers JR, Staessen JA, Wang J, Weber M, Williams B. Reply. *Journal of Hypertension*. 2017;35:2327-8. IF: 4.085. Letter.

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: PCT/ES2017/070265.
Type: PCT.
Inventors: Luis Miguel Ruilope Urioste, Gloria Álvarez Llamas, Fernando Vivanco Martínez, Laura González Calero, Eugenia González Barderas.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación de Investigación del Hospital Nacional de Parapléjicos de Toledo (20%), Fundación Instituto de Investigación Sanitaria Jiménez Díaz (60%).
Date of application: 29/04/2016

PRIZES AND AWARDS

- Prizes: Projects from Sociedad Española de Cardiología for basic research 2017. Winning researcher: Gema Ruiz Hurtado.

PERINATAL MEDICINE

GROUP DIRECTOR

Galindo Izquierdo, Alberto

RESEARCH

GROUP MEMBERS

Albert de la Torre, Leticia
Escribano Abad, David
García Burguillo, Antonio
Gómez Arriaga, Paula Isabel
Gómez Montes, M^a Ener^y
Granados Ruiz, Miguel Ángel
Herraiz García, Ignacio

Herrera Linde, M^a Dolores
Mendoza Soto, Alberto
Montañés Delmas, M^a Elena
Rodríguez Calvo, Jesús
Toral Vázquez, Belén
Velasco Bayón, José Manuel

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Noncompetitive	Various	1
TOTAL		4

- Title: Elección del momento del parto en la preeclampsia y el crecimiento fetal restringido de aparición tardía: aproximación al dilema mediante tecnología analítica de alta resolución.

Principal Investigator: Alberto Galindo Izquierdo

Project No.: PI16/01955

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

- 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: M^a Ener^y Gómez Montes

Project No.: PI13/02085
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 31/06/2018

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

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: Evaluación de la capacidad funcional en pacientes en estado de fontan en la edad pediátrica.

Principal Investigator: Alberto Mendoza Soto

Funding Body: Evomed, S.L.

Start date: 15/03/2017

End date: 14/03/2020

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	4	12.410
Total	4	12.410

Domínguez-Manzano P, Herraiz I, Mendoza A, Aguilar JM, Escribano D, Toral B, Gómez-Montes E, Galindo A. Impact of prenatal diagnosis of transposition of the great arteries on postnatal outcome. *Journal of Maternal-Fetal & Neonatal Medicine*. 2017;30:2858-63. IF: 1.826. Article.

Zijlstra WM, Elmasry O, Pepplinkhuizen S, Ivy DD, Bonnet D, Luijendijk P, Lévy M, Gavilan JL, Torrent-Vernetta A, Mendoza A, Del Cerro MJ, Moledina S, Berger RM. Pulmonary arterial hypertension in children after neonatal arterial switch operation. *Heart*. 2017;103:1244-9. IF: 6.059. Article.

Galindo A, Gómez-Montes E, Gómez O, Bennasar M, Crispí F, Herraiz I, Mendoza A, Escribano D, García-Torres E, Carretero JM, Gratacós E, Martínez JM. Fetal Aortic Valvuloplasty: Experience and Results of Two Tertiary Centers in Spain. *Fetal Diagnosis and Therapy*. 2017;42:262-70. IF: 2.699. Article.

Herraiz I, Simón E, Toldos Ó, Rodríguez Y, Gómez-Arriaga PI, Galindo A. Angiogenesis-related biomarkers (sFlt-1/PIGF) in placental mesenchymal dysplasia. *Journal of Maternal-Fetal & Neonatal Medicine*. 2017;30:958-61. IF: 1.826. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Paula Domínguez Manzano
- Title:** Transposición de grandes arterias: precisión del diagnóstico prenatal y estudio de factores pronósticos a largo plazo.
- Director/s:** Alberto Galindo Izquierdo
- Date Defended:** 07/07/2017
- University:** Universidad de Salamanca

RESEARCH ON

CARDIOVASCULAR RISK



PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	1	3.235
Editorials	1	1.042
Total	2	4.277

- Jiménez-García R, Lopez-de-Andres A, Hernandez-Barrera V, Gómez-Campelo P, San Andrés-Rebollo FJ, de Burgos-Lunar C, Cárdenas-Valladolid J, Abánades-Herranz JC, Salinero-Fort MA. Influenza vaccination in people with type 2 diabetes, coverage, predictors of uptake, and perceptions. Result of the MADIBETES cohort a 7 years follow up study. Vaccine. 2017;35:101-8. IF: 3.235. Article.
- Castillejo MM, Fernández JC, Mascort Roca J, Rodriguez-Moñino AP. Primary care and detection of colorectal cancer. Atencion Primaria. 2017;49:565-7. IF: 1.042. 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 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

INFLAMMATORY DISEASES AND IMMUNE DISORDERS

COORDINATOR: JOSÉ LUIS PABLOS ÁLVAREZ

Asthma and Immunoallergic Diseases

**Molecular and Cellular Bases
of Rheumatic Diseases**

Inflammatory and Autoimmune Diseases

Lymphocyte Immunobiology

**Immunodeficiencies and Immunology of
Transplants**

ASTHMA AND IMMUNOALLERGIC DISEASES

RESEARCH GROUP MEMBERS

GROUP DIRECTOR

Diéguez Pastor, M^a del Carmen

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^a del Carmen
Mielgo Ballesteros, Ruth
Rodríguez Rodríguez, Julia
Sánchez Millán, M^a Luisa
Troyano Rivas, Carmen

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	1
TOTAL		2

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

Title: Biomarcador no invasivo en la esofagitis eosinofílica: utilidad clínica de la periostina sérica en población infantil y adulta con esta patología.
 Principal Investigator: M^a del Carmen Diéguez Pastor
 Funding Body: Fundación Española de Alergología e Inmunología Clínica
 Start date: 23/05/2017
 End date: 31/12/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	4	12.818
Total	4	12.818
Letters	1	3.728
Total	5	16.546

- Gonzalez R, Bustinx A, Fernandez SN, Garcia M, Rodriguez S, Garcia-Teresa MA, Gaboli M, Garcia S, Sardon O, Garcia D, Salcedo A, Rodriguez A, Luna MC, Hernandez A, Gonzalez C, Medina A, Perez E, Callejon A, Toledo JD, Herranz M, Lopez-Herce J; Spanish Children Home Mech. Quality of life in home-ventilated children and their families. European Journal of Pediatrics. 2017; 176:1307-17. IF: 1.921. Article.
- López-Causapé C, de Dios-Caballero J, Cobo M, Escribano A, Asensio Ó, Oliver A, Del Campo R, Cantón R, Solé A, Cortell I, Asensio O, García G, Martínez MT, Cols M, Salcedo A, Vázquez C, Baranda F, Girón R, Quintana E, Delgado I, de Miguel MÁ, García M, Oliva C, Prados MC, Barrio MI, Pastor MD, Olveira C, de Gracia J, Álvarez A, Escribano A, Castillo S, Figueroa J, Togores B, Oliver A, López C, de Dios Caballero J, Tato M, Máiz L, Suárez L, Cantón R. Antibiotic resistance and population structure of cystic fibrosis *Pseudomonas aeruginosa* isolates from a Spanish multi-centre study. International Journal of Antimicrobial Agents. 2017;50:334-41. IF: 4.307. Article.
- Manso L, Pineda R, Huertas B, Fernández-Rivas M, Diéguez MC, Cerecedo I, Muriel A, Fernández Félix B, DunnGalvin A, Antolín-Amérigo D, De la Hoz B. Validation of the Spanish Version of the Food Allergy Quality of Life Questionnaire-Parent Form (S-FAQQL-PF). Journal of Investigational Allergology and Clinical Immunology. 2017;27:363-9. IF: 3.094. Article.
- Sanchiz A, Ballesteros I, Martin A, Rueda J, Pedrosa MM, Dieguez MC, Rovira M, Cuadrado C, Linacero R. Detection of pistachio allergen coding sequences in food products: A comparison of two real time PCR approaches. Food Control. 2017;75:262-70. IF: 3.496. Article.
- García-Granero DB, Vera DG, Grande C, Jimenez RB, Rodriguez CF, Bobolea I. Modern challenges of allergic bronchopulmonary aspergillosis diagnosis and management finding from a case study with a history of rituximab use. Annals of Allergy Asthma & Immunology. 2017;119:93-4. IF: 3.728. Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MOLECULAR AND CELLULAR BASES OF RHEUMATIC DISEASES

GROUP DIRECTOR

Pérez Gomariz, Rosa M^a

RESEARCH GROUP MEMBERS

Carrión Caballo, Mar
Gutiérrez Cañas, Irene
Juarranz Moratilla, Yasmina
Leceta Martínez, Javier

Martínez Mora, M^a del Carmen
Pérez García, Selene
Valiño Seoane, Iria
Villanueva Romero, Raúl

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 M^a 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: 01/01/2015
End date: 31/12/2017

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 M^a Pérez Gomariz
Project No.: RTC-2015-3562-1
Funding Body: Ministerio de Economía y Competitividad - Proyecto Retos de colaboración con empresas
Start date: 01/01/2015
End date: 31/12/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	1	1.125
Total	1	1.125

- Tío L, Orellana C, Pérez-García S, Piqueras L, Escudero P, Juarranz Y, García-Giralt N, Montañés F, Farran A, Benito P, Gomariz RP, Sanz MJ, Monfort J. Effect of chondroitin sulphate on synovitis of knee osteoarthritic patients. Medicina Clinica. 2017;149:9-16. IF: 1.125. Article.

PATENTS

- Title:** Método pronóstico de enfermedades autoinmunes mediante el genotipado de variantes genéticas del Péptido Intestinal Vasoactivo.
Type: European. 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 application: 17/03/2014.
Application no.: P201430364

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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

GROUP DIRECTOR

Pablos Álvarez, José Luis

RESEARCH GROUP MEMBERS

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

González Granado, José M^a
Joven Ibáñez, Beatriz Esther Martín López, María Melchor Díaz, Sheila Miranda Ramos, Vanesa Usategui Corral, Alicia Valín García, Álvaro

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Noncompetitive	Various	1
TOTAL		4

- Title: Interacción entre inflamación, metabolismo y senescencia en las Artritis Crónicas.
Principal Investigator: José Luis Pablos Álvarez
Project No.: PI16/00032
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019

- Title: Clinical Validation of Genetic Markers to Predict Persistent Remission in Rheumatoid Arthritis Patients Treated with Biological Therapy (REMRA).
Principal Investigator: José Luis Pablos Álvarez (collaborator)
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 31/12/2018

- Title: Biomarcadores de inmunosupresión en pacientes con artritis crónicas en tratamiento con terapias inmuno-moduladoras.
Principal Investigator: José Luis Pablos Álvarez
Funding Body: Merck Sharp Dohme España, S.A.
Start date: 01/12/2017
End date: 31/12/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	28	231.313
Reviews	2	8.996
Total	30	240.309

- 2017;70:915-23. IF: 4.485. Article.
- Cruz-Adalia A, Ramirez-Santiago G, Osuna-Pérez J, Torres-Torresano M, Zorita V, Martínez-Riaño A, Boccasavia V, Borroto A, Martínez Del Hoyo G, González-Granado JM, Alarcón B, Sánchez-Madrid F, Veiga E. Conventional CD4+ T cells present bacterial antigens to induce cytotoxic and memory CD8+ T cell responses. *Nature Communications*. 2017;8:1591. IF: 12.124. Article.
- Domínguez-Soto Á, Usategui A, Casas-Engel ML, Simón-Fuentes M, Nieto C, Cuevas VD, Vega MA, Luis Pablos J, Corbí ÁL. Serotonin drives the acquisition of a profibrotic and anti-inflammatory gene profile through the 5-HT7R-PKA signaling axis. *Scientific Reports*. 2017;7:14761. IF: 4.259. Article.
- Quezada Loaiza CA, Velázquez Martín MT, Jiménez López-Guarch C, Ruiz Cano MJ, Navas Tejedor P, Carreira PE, Flox Camacho Á, de Pablo Gafas A, Delgado Jiménez JF, Gómez Sánchez MÁ, Escrivano Subías P. Trends in Pulmonary Hypertension Over a Period of 30 Years: Experience From a Single Referral Centre. *Revista Española de Cardiología*. 2017;35:1047-55. IF: 2.634. Article.
- Nuño-Nuño L, Joven BE, Carreira PE, Maldonado-Romero V, Larena-Grijalba C, Cubas IL, Tomero EG, Barbadillo-Mateos MC, De la Peña Lefebvre PG, Ruiz-Gutiérrez L, López-Robledillo JC, Moruno-Cruz H, Pérez A, Cobo-Ibáñez

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- T, Almodóvar González R, Lojo L, García De Yébenes MJ, López-Longo FJ. Mortality and prognostic factors in idiopathic inflammatory myositis: a retrospective analysis of a large multicenter cohort of Spain. *Rheumatology International*. 2017;37:1853-61. IF: 1.824. Article.
- Elhai M, Meune C, Boubaya M, Avouac J, Hachulla E, Balbir-Gurman A, Riemekasten G, Airò P, Joven B, Vettori S, Cozzi F, Ullman S, Czirják L, Tikly M, Müller-Ladner U, Caramaschi P, Distler O, Iannone F, Ananieva LP, Hesselstrand R, Becvar R, Gabrielli A, Damjanov N, Salvador MJ, Riccieri V, Mihai C, Szűcs G, Walker UA, Hunzelmann N, Martinovic D, Smith V, Müller CS, Montecucco CM, Opris D, Ingegnoli F, Vlachoyiannopoulos PG, Stamenkovic B, Rosato E, Heitmann S, Distler JHW, Zenone T, Seidel M, Vacca A, Langhe E, Novak S, Cutolo M, Mouthon L, Henes J, Chizzolini C, Mühlen CAV, Solanki K, Rednic S, Stamp L, Anic B, Santamaria VO, Santis M, Yavuz S, Sifuentes-Giraldo WA, Chatelus E, Stork J, Laar JV, Loyo E, García de la Peña Lefebvre P, Eyerich K, Cosentino V, Alegre-Sancho JJ, Kowal-Bielecka O, Rey G, Matucci-Cerinic M, Allanore Y; EUSTAR group. Mapping and predicting mortality from systemic sclerosis. *Annals of the Rheumatic Diseases*. 2017;76:1897-905. IF: 12.811. Article.
 - Nguyen LP, Al-Sawalha NA, Parra S, Pokkunuri I, Omoluabi O, Okulate AA, Li EW, Hazen M, Gonzalez-Granado JM, Daly CJ, McGrath JC, Tuvim MJ, Knoll BJ, Dickey BF, Bond RA. beta(2)-Adrenoceptor signaling in airway epithelial cells promotes eosinophilic inflammation, mucous metaplasia, and airway contractility. *Proceedings of The National Academy of Sciences of the United States of America*. 2017;114:9163-71. IF: 9.661. Article.
 - Bossini-Castillo L, Campillo-Davó D, López-Isac E, Carmona FD, Simeon CP, Carreira P, Callejas-Rubio JL, Castellví I, Fernández-Nebro A, Rodríguez-Rodríguez L, Rubio-Rivas M, García-Hernández FJ, Madroñero AB, Beretta L, Santaniello A, Lunardi C, Airó P, Hoffmann-Vold AM, Kreuter A, Riemekasten G, Witte T, Hunzelmann N, Vonk MC, Voskuyl AE, de Vries-Bouwstra J, Shiels P, Herrick A, Worthington J, Radstake TRDJ, Martin J; Spanish Scleroderma Group. An MIF Promoter Polymorphism Is Associated with Susceptibility to Pulmonary Arterial Hypertension in Diffuse Cutaneous Systemic Sclerosis. *Journal of Rheumatology*. 2017;44:1453-7. IF: 3.150. Article.
 - Cohen S, Genovese MC, Choy E, Perez-Ruiz F, Matsumoto A, Pavelka K, Pablos JL, Rizzo W, Hrycaj P, Zhang N, Sherry W, Kaur P. Efficacy and safety of the biosimilar ABP 501 compared with adalimumab in patients with moderate to severe rheumatoid arthritis: a randomised, double-blind, phase III equivalence study. *Annals of the Rheumatic Diseases*. 2017;76:1679-87. IF: 12.811. Article.
 - Carreira PE, Carmona L, Joven BE, Loza E, Andreu JL, Riemekasten G, Vettori S, Allanore Y, Balbir-Gurman A, Airò P, Walker UA, Damjanov N, Ananieva LP, Rednic S, Czirják L, Distler O, Farge D, Hesselstrand R, Corrado A, Caramaschi P, Tikly M, Matucci-Cerinic M; and EUSTAR co-authors. Clinical determinants of elevated systolic pulmonary artery pressure measured by transthoracic Doppler echocardiography in early systemic sclerosis. *Clinical and Experimental Rheumatology*. 2017;35(Suppl. 106):114-21. IF: 2.634. Article.
 - Acebes C, Andreu JL, Balsa A, Battle E, de Toro-Santos J, García Llorente F, Hernández MV, Fernández-Gutiérrez B, Hidalgo-Calleja C, Mayordomo L, Naredo E, Narváez FJ, Ortiz AM, Pablos JL, Pérez-Sandoval T, Rodríguez-Lozano C, Sánchez-Pernaute O, Usón J, Negrón JB, Loza E, Carmona L, Gómez Castro S, Montoro Alvarez M. Exploring the remission concept in rheumatoid arthritis with patients and rheumatologists: time for a new approach? *Clinical and Experimental Rheumatology*. 2017;35:816-22. IF: 2.634. Article.
 - Rocha-Perugini V, Martínez Del Hoyo G, González-Granado JM, Ramírez-Huesca M, Zorita V, Rubinstein E, Boucheix C, Sánchez-Madrid F. CD9 Regulates Major Histocompatibility Complex Class II Trafficking in Monocyte-Derived Dendritic Cells. *Molecular and Cellular Biology*. 2017;37(15):e00202-17. IF: 4.398. Article.
 - Herrick AL, Pan X, Peytrignet S, Lunt M, Hesselstrand R, Mouthon L, Silman A, Brown E, Czirják L, Distler JH, Distler O, Fligelstone K, Gregory WJ, Ochiel R, Vonk M, Ancuta C, Ong VH, Farge D, Hudson M, Matucci-Cerinic M, Balbir-Gurman A, Midtvedt Ø, Jordan AC, Jobanputra P, Stevens W, Moinzadeh P, Hall FC, Agard C, Anderson ME, Diot E, Madhok R, Akil M, Buch MH, Chung L, Damjanov N, Gunawardena H, Lanyon P, Ahmad Y, Chakravarty K, Jacobsen S, MacGregor AJ, McHugh N, Müller-Ladner U, Riemekasten G, Becker M, Roddy J, Carreira PE, Fauchais AL, Hachulla E, Hamilton J, Inanç M, McLaren JS, van Laar JM, Pathare S, Proudman S, Rudin A, Sahhar J, Coppere B, Serratrice C, Sheeran T, Veale DJ, Grange C, Trad GS, Denton CP. Treatment outcome in early diffuse cutaneous systemic sclerosis: the European Scleroderma Observational Study (ESOS). *Annals of the Rheumatic Diseases*. 2017;76:1207-18. IF: 12.811. Article.
 - Del Rey MJ, Valín Á, Usategui A, García-Herrero CM, Sánchez-Aragó M, Cuevza JM, Galindo M, Bravo B, Cañete JD, Blanco FJ, Criado G, Pablos JL. Hif-1 alpha Knockdown Reduces Glycolytic Metabolism and Induces Cell Death of Human Synovial Fibroblasts Under Normoxic Conditions. *Scientific Reports*. 2017;7:3644. IF: 4.259. Article.
 - Aterido A, Julià A, Carreira P, Blanco R, López-Longo JJ, Venegas JJP, Olivé À, Andreu JL, Aguirre-Zamorano MÁ, Vela P, Nolla JM, Marenco-de la Fuente JL, Zea A, Pego JM, Freire M, Díez E, López-Lasanta M, López-Corbeto M, Palau N, Tortosa R, Gelpí JL, Absher D, Myers RM, Fernández-Nebro A, Marsal S. Genome-wide pathway analysis identifies VEGF pathway association with oral ulceration in systemic lupus erythematosus. *Arthritis Research & Therapy*. 2017;19:138. IF: 4.121. Article.
 - Riveros Frutos A, Casas I, Rúa-Figueroa I, López-Longo FJ, Calvo-Alén J, Galindo M, Fernández-Nebro A, Pego-Reigosa JM, Olivé Marqués A; RELESSER Group, part of the Spanish Society of Rheumatology Systemic Autoimmune. Systemic lupus erythematosus in Spanish males: a study of the Spanish Rheumatology Society Lupus Registry (RELESSER) cohort. *Lupus*. 2017;26:698-706. IF: 2.454. Article.
 - Joven BE, Navarro-Compán V, Rosas J, Fernandez Dapica P, Zarco P, De Miguel E; ESPeranza working group. Diagnostic Value and Validity of Early Spondyloarthritis Features: Results From a National Spanish Cohort. *Arthritis Care & Research*. 2017;69:938-42. IF: 3.319. Article.
 - Fernández-Gutiérrez B, Perrotti PP, Gisbert JP, Domènech E, Fernández-Nebro A, Cañete JD, Ferrández C, Tornero J, García-Sánchez V, Panés J, Fonseca E, Blanco F, Rodríguez-Moreno J, Carreira P, Julià A, Marsal S, Rodriguez-Rodriguez L; IMID Consortium. Cardiovascular disease in immune-mediated inflammatory diseases: A cross-sectional analysis of 6 cohorts. *Medicine*. 2017;Jun;96(26):e7308. IF: 1.803. Article.
 - Hao Y, Hudson M, Baron M, Carreira P, Stevens W, Rabusa C, Tatibouet S, Carmona L, Joven BE, Huq M, Proudman S, Nikpour M; Canadian Scleroderma Research Group, Australian Scleroderma Interest Group. Early Mortality in a Multinational Systemic Sclerosis Inception Cohort. *Arthritis & Rheumatology*. 2017;69:1067-77. IF: 6.918. Article.
 - Steri M, Orrù V, Idda ML, Pitzalis M, Pala M, Zara I, Sidore C, Faà V, Floris M, Deiana M, Asunis I, Porcu E, Mulas A, Piras MG, Lobina M, Lai S, Marongiu M, Serra V, Marongiu M, Sole G, Busonero F, Maschio A, Cusano R, Cuccuru G, Deidda F, Poddie F, Farina G, Dei M, Virdis F, Olla S, Satta MA, Pani M, Delitala A, Cocco E, Frau J, Coghe G, Lorefice L, Fenu G, Ferrigno P, Ban M, Barizzone N, Leone M, Guerini FR, Piga M, Firinu D, Kockum I, Lima Bomfim I, Olsson T, Alfredsson L, Suarez A, Carreira PE, Castillo-Palma MJ, Marcus JH, Congia M, Angius A, Melis M, Gonzalez A, Alarcón Riquelme ME, da Silva BM, Marchini M, Danieli MG, Del Giacco S, Mathieu A, Pani A, Montgomery SB, Rosati G, Hillert J, Sawcer S, D'Alfonso S, Todd JA, Novembre J, Abecasis GR, Whalen MB, Marrosu MG, Meloni A, Sanna S, Gorospe M, Schlessinger D, Fiorillo E, Zoledziewska M, Cucca F. Overexpression of the Cytokine BAFF and Autoimmunity Risk. *New England Journal of Medicine*. 2017;376:1615-26. IF: 72.406. Article.
 - Rodríguez-Frade JM, Guedán A, Lucas P, Martínez-Muñoz L, Villares R, Criado G, Balomenos D, Reyburn HT, Mellado M. Use of Lentiviral Particles As a Cell Membrane-Based mFasL Delivery System for In Vivo Treatment of Inflammatory Arthritis. *Frontiers in Immunology*. 2017;8:460. IF: 6.429. Article.
 - Antón-Pacheco JL, Usategui A, Martínez I, García-Herrero CM, Gamez AP, Grau M, Martínez AM, Rodríguez-Peralto

- JL, Pablos JL. TGF-beta Antagonist Attenuates Fibrosis But Not Luminal Narrowing in Experimental Tracheal Stenosis. *Laryngoscope*. 2017;127:561-7. IF: 2.471. Article.
- Lopez-Millan B, Diaz de la Guardia R, Roca-Ho H, García-Herrero CM, Lavoie JR, Rosu-Myles M, Gonzalez-Rey E, O'Valle F, Criado G, Delgado M, Menendez P. Therapeutic effect of the immunomodulatory drug lenalidomide, but not pomalidomide, in experimental models of rheumatoid arthritis and inflammatory bowel disease. *Experimental and Molecular Medicine*. 2017;49:e290. IF: 5.063. Article.
 - López-Mejías R, Corrales A, Vicente E, Robustillo-Villarino M, González-Juanatey C, Llorca J, Genre F, Remuzgo-Martínez S, Dierssen-Sotos T, Miranda-Filloy JA, Huaranga MA, Pina T, Blanco R, Alegre-Sancho JJ, Raya E, Mijares V, Ubilla B, Ferraz-Amaro I, Gómez-Vaquero C, Balsa A, López-Longo FJ, Carreira P, González-Álvaro I, Ocejo-Vinyals JG, Rodríguez-Rodríguez L, Fernández-Gutiérrez B, Castañeda S, Martín J, González-Gay MA. Influence of coronary artery disease and subclinical atherosclerosis related polymorphisms on the risk of atherosclerosis in rheumatoid arthritis. *Scientific Reports*. 2017;7:40303. IF: 4.259. Article.
 - Márquez A, Vidal-Bralo L, Rodríguez-Rodríguez L, González-Gay MA, Balsa A, González-Álvaro I, Carreira P, Ortego-Centeno N, Ayala-Gutiérrez MM, García-Hernández FJ, González-Escribano MF, Sabio JM, Tolosa C, Suárez A, González A, Padyukov L, Worthington J, Vyse T, Alarcón-Riquelme ME, Martín J. A combined large-scale meta-analysis identifies COG6 as a novel shared risk locus for rheumatoid arthritis and systemic lupus erythematosus. *Annals of the Rheumatic Diseases*. 2017;76:286-94. IF: 12.811. Article.
 - Valentini G, Iudici M, Walker UA, Jaeger VK, Baron M, Carreira P, Czirjak L, Denton CP, Distler O, Hachulla E, Herrick AL, Kowal-Bielecka O, Pope J, Mueller-Ladner U, Riempel G, Avouac J, Frerix M, Jordan S, Minier T, Siegert E, Ong VH, Vettori S, Allanore Y. The European Scleroderma Trials and Research group (EUSTAR) task force for the development of revised activity criteria for systemic sclerosis: derivation and validation of a preliminarily revised EUSTAR activity index. *Annals of the Rheumatic Diseases*. 2017;76:270-6. IF: 12.811. Article.
 - Rua-Figueroa I, Fernandez Castro M, Andreu JL, Sanchez-Piedra C, Martinez-Taboada V, Olive A, Lopez-Longo J, Rosas J, Galindo M, Calvo-Alen J, Fernandez-Nebro A, Alonso F, Rodriguez-Lozano B, Garcia Vadillo JA, Menor R, Javier Narvaez F, Erazquin C, Garcia-Aparicio A, Tomero E, Manrique-Arija S, Horcada L, Uriarte E, Gil S, Blanco R, Lopez-Gonzalez R, Boteanu A, Freire M, Galisteo C, Rodriguez-Gomez M, Diez-Alvarez E, Pego-Reigosa JM; Sjogren's Researchers. Comorbidities in Patients With Primary Sjögren's Syndrome and Systemic Lupus Erythematosus: A Comparative Registries-Based Study. *Arthritis Care & Research*. 2017;69:38-45. IF: 3.319. Article.
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LYMPHOCYTE IMMUNOBIOLOGY

RESEARCH

GROUP MEMBERS

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Briones Contreras, Alejandro
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Tortajada Alonso, Agustín
Ye, Hui
Zheng, Kang

ACTIVE PROJECTS NOT MANAGED

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

- Title: Red de Excelencia Complemento en salud y enfermedad.
Principal Investigators: Santiago Rodríguez de Córdoba, José Ramón Regueiro González-Barros
Project No.: SAF2016-81876-REDT
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Management body: Fundación General UCM
Start date: 01/02/2017
End date: 31/01/2019

- Title: Desentrañando las bases moleculares del síndrome hemolítico urémico atípico y las glomerulopatías de C3.
Principal Investigators: Elena Goicoechea de Jorge
Funding Body: Fundación Inocente Inocente
Management body: Fundación General UCM
Start date: 01/11/2017
End date: 31/10/2018
- Title: Unraveling histone modifications as therapeutic targets against leukemic cell migration.
Principal Investigator: Javier Redondo Muñoz

Funding Body: Gilead Sciences
Management body: Fundación General UCM
Start date: 01/11/2017
End date: 31/10/2018

- Title: Intra and extracellular T cell activation physiopathology.
Principal Investigators: 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 (extended)
- 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: Vaccine epitope prediction: application to rinovirus.
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.
- Principal Investigators: Mª José Recio Hoyas, Manuel Gómez del Moral
- Funding Body: UCM
- Management body: UCM
- Start date: 01/06/2015
- End date: 01/06/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	16	91.990
Reviews	1	3.600
Total	17	95.590
Letters	1	13.081
Total	18	108.671

- Sanchez-Trincado JL, Gomez-Perez M, Reche PA. Fundamentals and Methods for T- and B-Cell Epitope Prediction. *Journal of Immunology Research*. 2017; 2680160. IF: 3.276. Article.
- Damfo SA, Reche P, Gatherer D, Flower DR. In silico design of knowledge-based Plasmodium falciparum epitope ensemble vaccines. *Journal of Molecular Graphics & Modelling*. 2017;78:195-205. IF: 1.754. Article.
- Hao F, Cubero FJ, Ramadori P, Liao L, Haas U, Lambertz D, Sonntag R, Bangen JM, Gassler N, Hoss M, Streetz KL, Reissing J, Zimmermann HW, Trautwein C, Liedtke C, Nevzorova YA. Inhibition of Caspase-8 does not protect from alcohol-induced liver apoptosis but alleviates alcoholic hepatic steatosis in mice. *Cell Death & Disease*. 2017;8:e3152. IF: 5.965. Article.
- Tortajada A, Gutiérrez E, Goicoechea de Jorge E, Anter J, Segarra A, Espinosa M, Blasco M, Roman E, Marco H, Quintana LF, Gutiérrez J, Pinto S, Lopez-Trascasa M, Praga M, Rodriguez de Córdoba S. Elevated factor H-related protein 1 and factor H pathogenic variants decrease complement regulation in IgA nephropathy. *Kidney International*. 2017;92:953-63. IF: 8.395. Article.
- Harwood SL, Alvarez-Cienfuegos A, Nuñez-Prado N, Compte M, Hernández-Pérez S, Merino N, Bonet J, Navarro R, Van Bergen En Henegouwen PMP, Lykemark S, Mikkelsen K, Mølgaard K, Jabs F, Sanz L, Blanco FJ, Roda-Navarro P, Alvarez-Vallina L. ATTACK, a novel bispecific T cell-recruiting antibody with trivalent EGFR binding and monovalent CD3 binding for cancer immunotherapy. *Oncimmunology*. 2017:e1377874. IF: 6.266. Article.

- Blázquez-Moreno A, Pérez-Portilla A, Agúndez-Llaca M, Dukovska D, Valés-Gómez M, Aydogmus C, Ikinciogullari A, Regueiro JR, Reyburn HT. Analysis of the recovery of CD247 expression in a PID patient: insights into the spontaneous repair of defective genes. *Blood*. 2017; 130:1205-8. IF: 13.164. Article.
- Bettoni S, Galbusera M, Gastoldi S, Donadelli R, Tentori C, Sparta G, Bresin E, Mele C, Alberti M, Tortajada A, Yebenes H, Remuzzi G, Noris M. Interaction between Multimeric von Willebrand Factor and Complement: A Fresh Look to the Pathophysiology of Microvascular Thrombosis. *Journal of Immunology*. 2017;199:1021-40. IF: 4.856. Article.
- Castro-Sánchez P, Ramirez-Munoz R, Lamana A, Ortiz A, González-Álvaro I, Roda-Navarro P. mRNA profilin identifies low levels of phosphatases dual-specific phosphatase-7 (DUSP7) and cell division cycle-25B (CDC25B) in patients with early arthritis. *Clinical and Experimental Immunology*. 2017;189:113-9. IF: 3.410. Article.
- Guasp P, Barnea E, González-Escribano MF, Jiménez-Reinoso A, Regueiro JR, Admon A, López de Castro JA. The Behcet's disease-associated variant of the aminopeptidase ERAP1 shapes a low-affinity HLA-B*51 peptidome by differential subpeptidome processing. *Journal of Biological Chemistry*. 2017;292:9680-9. IF: 4.125. Article.
- Ramadori P, Drescher H, Erschfeld S, Fragoulis A, Kensler TW, Wruck CJ, Cubero FJ, Trautwein C, Streetz KL, Kroy DC. Genetic Nrf2 Overactivation Inhibits the deleterious effects induced by hepatocyte-specific c-met deletion during the progression of NASH. *Oxidative Medicine and Cellular Longevity*. 2017;2017:3420286. IF: 4.593. Article.
- Abos Gracia B, López Relaño J, Revilla A, Castro L, Villalba M, Martín Adrados B, Regueiro JR, Fernández-Malavé E, Martínez Naves E, Gómez Del Moral M. Human Invariant Natural Killer T Cells Respond to Antigen-Presenting Cells Exposed to Lipids from Olea europaea Pollen. *International Archives of Allergy and Immunology*. 2017;173:12-22. IF: 2.720. Article.
- Kuttkat N, Mohs A, Ohl K, Hooiveld G, Longerich T, Tenbrock K, Cubero FJ, Trautwein C. Hepatic overexpression of cAMP-responsive element modulator a induces a regulatory T-cell response in a murine model of chronic liver disease. *Gut*. 2017;66:908-19. IF: 16.658. Article.
- Querol-García J, Fernández FJ, Marin AV, Gómez S, Fullà D, Melchor-Tafur C, Franco-Hidalgo V, Albertí S, Juanhuix J, Rodríguez de Córdoba S, Regueiro JR, Vega MC. Crystal Structure of Glyceraldehyde-3-Phosphate Dehydrogenase from the Gram-Positive Bacterial Pathogen *A. vaginae*, an Immunoevasive Factor that Interacts with the Human C5a Anaphylatoxin. *Frontiers in Microbiology*. 2017;8:541. IF: 4.076. Article.
- Mohs A, Kuttkat N, Reißen J, Zimmermann HW, Sonntag R, Proudfoot A, Youssef SA, de Bruin A, Cubero FJ, Trautwein C. Functional role of CCL5/RANTES for HCC progression during chronic liver disease. *Journal of Hepatology*. 2017;66:743-53. IF: 12.486. Article.
- Jiménez-Reinoso A, Marin AV, Regueiro JR. Complement in basic processes of the cell. *Molecular Immunology*. 2017;84:10-6. IF: 3.236. Article.
- Castro-Sánchez P, Ramirez-Munoz R, Roda-Navarro P. Gene Expression Profiles of Human Phosphotyrosine Phosphatases Consequent to Th1 Polarisation and Effector Function. *Journal of Immunology Research*. 2017;8701042-. IF: 3.276. Article.
- Ramadori P, Cubero FJ, Liedtke C, Trautwein C, Nevzorova YA. Alcohol and Hepatocellular Carcinoma: Adding Fuel to the Flame. *Cancers*. 2017;9:130. IF: N/A. Article.
- Zheng K, Cubero FJ, Nevzorova YA. c-MYC-Making Liver Sick: Role of c-MYC in Hepatic Cell Function, Homeostasis and Disease. *Genes*. 2017;8(4):123. IF: 3.600. Review.
- Marin AV, Jiménez-Reinoso A, Briones AC, Muñoz-Ruiz M, Aydogmus C, Pasick LJ, Couso J, Mazariegos MS, Alvarez-Prado AF, Blázquez-Moreno A, Cipe FE, Haskoglu S, Dogu F, Morín M, Moreno-Pelayo MA, García-Sánchez F, Gil-Herrera J, Fernández-Malavé E, Reyburn HT, Ramiro AR, Ikinciogullari A, Recio MJ, Regueiro JR, Garcillán B. Primary T-cell immunodeficiency with functional revertant somatic mosaicism in CD247. *Journal of Allergy and Clinical Immunology*. 2017;139:347. IF: 13.081. Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Anais Jiménez Reinoso
Title: Impacto de la deficiencia de C3 plasmático en la diferenciación y función leucocitarias.
Director/s: José Ramón Regueiro González-Barros
Date Defended: 06/07/2017
University: Universidad Complutense de Madrid
- Candidate:** Patricia Castro Sánchez
Title: Papel de la fosfatasa de regeneración hepática 1 (PRL-1) durante el ensamblaje de la sinapsis inmunológica y la activación de los linfocitos T. Role of phosphatase of regenerating liver 1 (PRL-1) during inmunological synapse assembly and T cell activation.
Director/s: Pedro Roda Navarro
Date Defended: 20/12/2017
University: Universidad Complutense de Madrid
- Candidate:** Mª Magdalena Molero Abraham
Title: Estudio de la respuesta de linfocitos T condicionados por células epiteliales de la mucosa oral.
Director/s: Pedro Antonio Reche Gallardo, Mª Esther Lafuente Duarte

PRIZES AND AWARDS

- IMMUNOMEDIA 7.0: Prize for the best innovative experience SIMO-EDUCACIÓN 2017.

IMMUNODEFICIENCIES AND**IMMUNOLOGY OF TRANSPLANTS****ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	AECC	1
Noncompetitive	Various	2
TOTAL		6

- Title: Caracterización molecular de pacientes con inmunodeficiencia primaria mediante la utilización de la secuenciación del exoma completo y su repercusión funcional.
Principal Investigator: Luis Miguel Allende Martínez
Project No.: PI16/02053
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- 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, extended to 31/03/2018
- Title: Targeting de CD25 en MDSC: ¿posibilidad terapéutica para el cáncer?
Principal Investigator: Estela Paz Artal
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)
Start date: 01/07/2017
End date: 30/06/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	17	99.649
Editorials	1	1.572
Total	18	101.221
Letters	2	2.280
Total	20	103.501

- Guerra-Garcia P, Hirsch S, Levine DS, Taj MM. Preliminary experience on the use of PET/CT in the management of pediatric post-transplant lymphoproliferative disorder. *Pediatric Blood & Cancer*. 2017; 2513. Article.
- Martín-Gayo E, González-García S, García-León MJ, Murcia-Ceballos A, Alcain J, García-Peydró M, Allende L, de Andrés B, Gaspar ML, Toribio ML. Spatially restricted JAG1-Notch signaling in human thymus provides suitable DC developmental niches. *Journal of Experimental Medicine*. 2017; 214:3361-79. IF: 11.990. Article.
- Talayero P, Alonso-Guirado L, Padilla G, Artaza H, Dopazo A, Sánchez-Cabo F, Rodríguez-Muñoz S, Calvo-Pulido J, Mancebo E, de Lacoba MG, Paz-Artal E. 5-gene differential expression predicts stability of human intestinal allografts. *Experimental and Molecular Pathology*. 2017; 103:163-71. IF: 2.423. Article.
- Ruiz-Contreras J, Picazo J, Casado-Flores J, Baquero-

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Artigao F, Hernández-Sampelayo T, Otheo E, Méndez C, Del Amo M, Balseiro C; HERACLES STUDY GROUP. Impact of 1.3-valent pneumococcal conjugate vaccine on pneumococcal meningitis in children. *Vaccine*. 2017; 35: 4646-51. IF: 3.235. Article.
- Tortosa C, Cabrera-Marante O, Serrano M, Martínez-Flores JA, Pérez D, Lora D, Morillas L, Paz-Artal E, Morales JM, Pleguezuelo D, Serrano A. Incidence of thromboembolic events in asymptomatic carriers of IgA anti beta 2 glycoprotein-I antibodies. *PLoS One*. 2017; 12(7):e0178889. IF: 2.806. Article.
- Ruiz-García R, Rodríguez-Vigil C, Marco FM, Gallego-Bustos F, Castro-Panete MJ, Diez-Alonso L, Muñoz-Ruiz C, Ruiz-Contreras J, Paz-Artal E, González-Granado LI, Allende LM. Acquired Senescent T-Cell phenotype Correlates With Clinical Severity in GATA Binding Protein 2-Deficient Patients. *Frontiers in Immunology*. 2017; 8:802. IF: 6.429. Article.
- Jiménez B, Sainz T, Díaz L, Mellado MJ, Navarro ML, Rojo P, González-Tomé MI, Prieto L, Martínez J, de José MI, Ramos JT, Muñoz-Fernandez MÁ; Madrid Cohort of HIV-Infected Children and Adolescents Integrated in the Pediatr. Low Bone Mineral Density in Vertically HIV-infected Children and Adolescents. *Pediatric Infectious Disease Journal*. 2017; 36:578-83. IF: 2.486. Article.
- Serrano M, Martínez-Flores JA, Pérez D, García F, Cabrera-Marante O, Pleguezuelo DE, Paz-Artal E, Morales JM, González E, Serrano A. beta(2)-Glycoprotein I/IgA Immune Complexes A Marker to Predict Thrombosis After Renal Transplantation in Patients With Antiphospholipid Antibodies. *Circulation*. 2017; 135:1922-34. IF: 19.309. Article.
- Speckmann C, Doerken S, Aiuti A, Albert MH, Al-Herz W, Allende LM, Scarselli A, Avicen T, Perez-Becker R, Cancrin C, Cant A, Di Cesare S, Finocchi A, Fischer A, Gaspar HB, Ghosh S, Gennery A, Gilmour K, González-Granado LI, Martinez-Gallo M, Hambleton S, Hauck F, Hoenig M, Moshous D, Neven B, Niehues T, Notarangelo L, Picard C, Rieber N, Schulz A, Schwarz K, Seidel MG, Soler-Palacin P, Stepenksy P, Strahm B, Vraetz T, Warnatz K, Winterhalter C, Worth A, Fuchs S, Uhlmann A, Ehl S; P-CID study of the Inborn Errors Working Party of the EBMT. A prospective study on the natural history of patients with profound combined immunodeficiency: An interim analysis. *Journal of Allergy and Clinical Immunology*. 2017; 139:1302-10. IF: 13.081. Article.
- de la Morena MT, Leonard D, Torgerson TR, Cabral-Marques O, Slatter M, Aghamohammadi A, Chandra S, Murguia-Favela L, Bonilla FA, Kanariou M, Damrongwatanasuk R, Kuo CY, Dvorak CC, Meyts I, Chen K, Kobrynski L, Kapoor N, Richter D, DiGiovanni D, Dhalla F, Farmaki E, Speckmann C, Español T, Shcherbina A, Hanson IC, Litzman J, Routes JM, Wong M, Fuleihan R, Seneviratne SL, Small TN, Janda A, Bezrodnik L, Seger R, Raccio AG, Edgar JD, Chou J, Abbott JK, van Montfrans J, González-Granado LI, Bunin N, Kutukculer N, Gray P, Seminario G, Pasic S, Aquino V, Wysocki C, Abolhassani H, Dorsey M, Cunningham-Rundles C, Knutsen AP, Sleasman J, Costa Carvalho BT, Condino-Neto A, Grunebaum E, Chapel H, Ochs HD, Filipovich A, Cowan M, Gennery A, Cant A, Notarangelo LD, Roifman CM. Long-term outcomes of 176 patients with X-linked hyper-IgM syndrome treated with or without hematopoietic cell transplantation. *Journal of Allergy and Clinical Immunology*. 2017; 139:1282-92. IF: 13.081. Article.
- Judd A, Lodwick R, Noguera-Julian A, Gibb DM, Butler K, Costagliola D, Sabin C, van Sighem A, Ledergerber B, Torti C, Mocroft A, Podzamczer D, Dorruci M, De Wit S, Obel N, Dabis F, Cozzi-Lepri A, García F, Brockmeyer NH, Warszawski J, Gonzalez-Tome MI, Mussini C, Touloumi G, Zangerle R, Ghosn J, Castagna A, Fätkenheuer G, Stephan C, Meyer L, Campbell MA, Chene G, Phillips A; Pursuing Later Treatment Options II (PLATO II) Project Team for the Collaboratio. Higher rates of triple-class virological failure in perinatally HIV-infected teenagers compared with heterosexually infected young adults in Europe HIV. *Medicine*. 2017; 18:171-80. IF: 3.257. Article.
- Martinón-Torres F, Wysocki J, Center KJ, Czajka H, Majda-Stanislawska E, Omeñaca F, Concheiro-Guisan A, Giménez-Sánchez F, Szenborn L, Blázquez-Gamero D, Moreno-Galarraga L, Giardina PC, Sun G, Gruber WC, Scott DA, Gurtman A. Circulating Antibody 1 and 2 Years After

Vaccination With the 13-Valent Pneumococcal Conjugate Vaccine in Preterm Compared With Term Infants. *Pediatric Infectious Disease Journal*. 2017;36:326-32. IF: 2.486. Article.

Morales JM, Serrano M, Martínez-Flores JA, Pérez D, Castro MJ, Sánchez E, García F, Rodríguez-Antolín A, Alonso M, Gutierrez E, Morales E, Praga M, González E, Andrés A, Paz-Artal E, Martínez MA, Serrano A. The Presence of Pretransplant Antiphospholipid Antibodies IgA Anti-beta-2-Glycoprotein I as a Predictor of Graft Thrombosis After Renal Transplantation. *Transplantation*. 2017;101:597-607. IF: 3.678. Article.

Picazo J, Ruiz-Contreras J, Casado-Flores J, Negreira S, Baquero F, Hernández-Sampelayo T, Otheo E, Méndez C; Heracles Study Group. Effect of the different 13-valent pneumococcal conjugate vaccination uptakes on the invasive pneumococcal disease in children: Analysis of a hospital-based and population-based surveillance study in Madrid, Spain, 2007-2015. *PLoS One*. 2017; 12(2):e0172222. IF: 2.806. Article.

Valero-Hervás DM, Sánchez-Zapardiel E, Castro MJ, Gallego-Bustos F, Cambra F, Justo I, Laguna-Goya R, Jiménez-Romero C, Moreno E, López-Medrano F, San Juan R, Fernández-Ruiz M, Aguado JM, Paz-Artal E. Complement C3F allotype synthesized by liver recipient modifies transplantation outcome independently from donor hepatic C3. *Clinical Transplantation*. 2017;31(1). IF: 1.865. Article.

- Núñez-Ramos R, Fernández RM, González-Velasco M, Ruiz-Contreras J, Galán-Gómez E, Núñez-Núñez R, Borrego S. A Scoring System to Predict the Severity of Hirschsprung Disease at Diagnosis and Its Correlation With Molecular Genetics. *Pediatric and Developmental Pathology*. 2017;20:28-37. IF: 1.089. Article.
- Delgado JF, Serrano M, Moran L, Enguita AB, Martinez-Flores JA, Ortiz-Bautista, C, Rodriguez-Chaverri A, de Antonio IP, Cosio MDG, Panete MJC, Cortina JM, Serrano A. Early mortality after heart transplantation related to IgA anti beta(2)-glycoprotein I antibodies. *Journal of Heart and Lung Transplantation*. 2017;36:1258-65. IF: 7.114. Article.
- Grasa Lozano CD, Blázquez Gamero D, Ruiz Contreras J. Progressive bull's-eye lesions in the skin of a healthy child. *Journal of Paediatrics and Child Health*. 2017;53:1238. IF: 1.572. Editorial Material.
- Ruiz-Contreras J, Álvarez García FJ, Arístegui Fernández J, Moreno-Pérez D; en representación del Comité Asesor de Vacunas de la Asociación Española de Pedi. 2017 pneumococcal vaccine recommendations of the Spanish Association of Paediatrics. Authors reply. *Anales de Pediatría*. 2017;87:181-2. IF: 1.140. Letter.
- Vázquez Gómez F, Prieto Arce M, González-Granado LI, Enríquez Merayo E, de Inocencio Arocena J. Rituximab therapy for refractory thrombocytopenia in patients with antiphospholipid antibodies. *Anales de Pediatría*. 2017;87:51-3. IF: 1.140. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Raquel Ruiz García
Title: Estudio fenotípico, funcional y molecular de inmunodeficiencias con defectos de citotoxicidad y predisposición a infecciones virales y tumores.
Director/s: Luis Miguel Allende Martínez
Date Defended: 21/12/2017
University: Universidad Complutense de Madrid

PATENTS

- Title:** ARN de interferencia para el tratamiento del síndrome linfoproliferativo autoinmune de tipo 1A.
Inventors: Estela Paz Artal, M^a Esther Mancebo Sierra.
Owner: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Spanish Patent Application No.: P201430504.
Date of application: 04/04/2014

INFECTIOUS DISEASES AND AIDS

COORDINATOR: RAFAEL DELGADO VÁZQUEZ

Virology and HIV/AIDS

**Molecular Epidemiology of Hospital
and Emerging Infections**

Translational Research in Leishmaniasis

Translational Research in Malaria

Infectious Pathologies

**Translational Research Group
on Pediatric Infectious Diseases**

VIROLOGY AND HIV/AIDS

GROUP DIRECTOR

Delgado Vázquez, Rafael

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 Tamayo Caro, Miguel
 Taravillo Cañete, Irene
 Zurita Salas, Mª del Sagrario

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	5
Competitive	Commission of the European Communities	1
Noncompetitive	Various	8
TOTAL		14

- Title: Asociación del microbioma intestinal y la translocación bacteriana con biomarcadores predictivos de eventos NO-SIDA en pacientes infectados por VIH.
 Principal Investigator: Mónica García Álvarez

- Project No.: PI16/01124
 Funding Body: Instituto de Salud Carlos III (ISCIII)
 Start date: 01/01/2017
 End date: 30/12/2019

- Title: Tratamiento antirretroviral guiado por genotipo proviral: ensayo clínico piloto de prueba de concepto ("TAR-PRO").
 Principal Investigator: Federico Pulido Ortega
 Project No.: PI16/00678
 Funding Body: Instituto de Salud Carlos III (ISCIII)
 Start date: 01/01/2017
 End date: 30/12/2019
- Start date: 01/10/2017
 End date: 30/06/2018
- Title: Evaluación del rendimiento del ensayo aptima hiv-1 quant dx para la detección y cuantificación del VIH-1 en muestras de plasma, del ensayo APTIMA HBV QUANT para la cuantificación de vhb en muestras de plasma o suero, y del ensayo APTIMA HCV QUANT DX para la detección y cuantificación de VHC-1 en muestras de plasma y suero.
 Principal Investigator: Rafael Delgado Vázquez
 Funding Body: Hologic Deutschland GMBH
 Start date: 01/02/2017
 End date: 31/01/2020
- 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 Vázquez
 Project No.: PI14/00708
 Funding Body: Instituto de Salud Carlos III (ISCIII)
 Start date: 01/01/2015
 End date: 30/12/2017, extended to 30/06/2019
- Title: Performance and workflow evaluation of multiple platforms used to monitor HIV, HBV, HCV AND CMV VIRAL LOAD. MULTI-HALO-424.
 Principal Investigator: Rafael Delgado Vázquez
 Funding Body: Roche Molecular Systems, INC
 Start date: 01/11/2016
 End date: 30/11/2019
- Title: Marcadores genómicos de virulencia en la infección congénita por citomegalovirus humano (hCMV).
 Principal Investigator: Mª Dolores Folgueira López
 Project No.: PI13/02147
 Funding Body: Instituto de Salud Carlos III (ISCIII)
 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: Optomechanics for Virology – VIRUSCAN.
 Principal Investigator: Rafael Delgado Vázquez
 Funding Body: Commission of the European Communities
 Start date: 01/11/2016
 End date: 30/10/2021
- 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.
 Año Start date: 24/09/2015
 End date: 23/09/2018
- 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: 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

- Title: Flujo de trabajo en la plataforma veris para determinación de cargas virales de HIV, CMV, HBV Y HCV.
Principal Investigator: Rafael Rubio García
Funding Body: Enterprise Analysis Corporation
Start date: 01/09/2016
End date: 31/18/2019

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	18	76.079
Reviews	1	13.858
Editorials	1	7.592
Total	20	97.529
Letters	1	1.714
Total	21	99.243

- Pulido F, Ribera E, Lagarde M, Pérez-Valero I, Palacios R, Iribarren JA, Payeras A, Domingo P, Sanz J, Cervero M, Curran A, Rodríguez-Gómez FJ, Téllez MJ, Ryan P, Barrufet P, Knobel H, Rivero A, Alejos B, Yllanes M, Arribas JR; DUAL-GESIDA-8014-RIS-EST45 Study Group. Dual Therapy With Darunavir and Ritonavir Plus Lamivudine vs Triple Therapy With Darunavir and Ritonavir Plus Tenofovir Disoproxil Fumarate and Emtricitabine or Abacavir and Lamivudine for Maintenance of Human Immunodeficiency Virus Type 1 Viral Suppression: Randomized, Open-Label, Noninferiority DUAL-GESIDA 8014-RIS-EST45 Trial. *Clinical Infectious Diseases*. 2017;65:2112-8. IF: 8.216. Article.
- Navarro D, San-Juan R, Manuel O, Giménez E, Fernández-Ruiz M, Hirsch HH, Grossi PA, Aguado JM; ESGICH CMV Survey Study Group, European Study Group of

- Infections in Compromised Hosts (ESGICH), Society of Clinical Microbiology Infectious Diseases (ESCMID). Cytomegalovirus infection management in solid organ transplant recipients across European centers in the time of molecular diagnostics: An ESGICH survey. *Transplant Infectious Disease*. 2017;e12773. IF: 1.719. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Izopet J, Lombardi A, Marcos M, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. A European multicentre study on the comparison of HBV viral loads between VERIS HBV assay and Roche COBAS (R) TAQMAN (R) HBV test, Abbott RealTime HBV assay, Siemens VERSANT HBV assay, and Qiagen artus HBV RG kit. *Journal of Clinical Virology*. 2017;95:76-83. IF: 3.051. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Lalueza A, Trujillo H, Laureiro J, Ayuso B, Hernandez-Jimenez P, Castillo C, Torres M, Folgueira D, Madrid O, Diaz-Pedroche C, Arieta E, Arevalo C, Lumbreiras C. Impact of severe hematological abnormalities in the outcome of hospitalized patients with influenza virus infection. *European Journal of Clinical Microbiology & Infectious Diseases*. 2017;36:1827-37. IF: 2.727. Article.
- Macias J, Mancebo M, Merino D, Tellez F, Montes-Ramirez ML, Pulido F, Rivero-Juarez A, Raffo M, Perez-Perez M, Merchant N, Cotarelo M, Pineda JA; Spanish AIDS Res Network-HE. Changes in Liver Steatosis After Switching from Efavirenz to Raltegravir Among Human Immunodeficiency Virus-Infected Patients With Nonalcoholic Fatty Liver Disease. *Clinical Infectious Diseases*. 2017;65:1012-9. IF: 8.216. Article.
- Munoz A, Illescas BM, Luczkowiak J, Lasala F, Ribeiro-Viana R, Rojo J, Delgado R, Martin N. Antiviral activity of self-assembled glycendendro [60]fullerene monoadducts. *Journal of Materials Chemistry B*. 2017;5:6566-71. IF: 4.543. Article.
- Muñoz-Gallego I, Lora-Tamayo J, Pérez-Montarelo D, Brañas P, Viedma E, Chaves F. Influence of molecular characteristics in the prognosis of methicillin-resistant *Staphylococcus aureus* prosthetic joint infections: beyond the species and the antibiogram. *Infection*. 2017;45:533-7. IF: 2.468. Article.
- Berenguer J, Rodríguez-Castellano E, Carrero A, Von Wichmann MA, Montero M, Galindo MJ, Mallolas J, Crespo M, Téllez MJ, Quereda C, Sanz J, Barros C, Tural C, Santos I, Pulido F, Guardiola JM, Rubio R, Ortega E, Montes ML, Jusdado JJ, Gaspar G, Esteban H, Bellón JM, González-García J; GESIDA HIV/HCV Cohort Study Group. Eradication of Hepatitis C Virus and Non-Liver-Related Non-Acquired Immune Deficiency Syndrome-Related Events in Human Immunodeficiency Virus/Hepatitis C Virus Coinfection. *Hepatology*. 2017;66:344-56. IF: 13.246. Article.
- Rosado-Sánchez I, Herrero-Fernandez I, Alvarez-Ríos AI, Genebat M, Abad-Carrillo MA, Ruiz-Mateos E, Pulido F, Gonzalez-García J, Montero M, Bernal-Morell E, Vidal F,
- Leal M, Pacheco YM. A Lower Baseline CD4/CD8 T-Cell Ratio Is Independently Associated with Immunodiscordant Response to Antiretroviral Therapy in HIV-Infected Subjects. *Antimicrobial Agents and Chemotherapy*. 2017;61(8). pii: e00605-17. IF: 4.302. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Hofmann J, Izopet J, Kalus U, Lombardi A, Marcos M, Mileto D, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. European Multicenter Study on Analytical Performance of Veris HIV-1 Assay. *Journal of Clinical Microbiology*. 2017;55:2055-63. IF: 3.712. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Hofmann J, Izopet J, Kühn S, Lombardi A, Mancon A, Marcos MA, Mileto D, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. An European multicentre study on the comparison of HIV-1 viral loads between VERIS HIV-1 Assay and Roche COBAS (R) TAQMAN (R) HIV-1 test, Abbott RealTime HIV-1 Assay, and Siemens VERSANT HIV-1 Assay. *Journal of Clinical Virology*. 2017;92:75-82. IF: 3.051. Article.
- Moreno S, Antela A, García F, Del Amo J, Boix V, Coll P, Fortuny C, Sirvent JL, Gutiérrez F, Iribarren JA, Libre JM, Quirós JC, Losa JE, Lozano A, Meulbroek M, Olalla J, Pujol F, Pulido F, Crespo Casal M, García JG, Aldeguer JL, Molina JA, Podzamczer Palter D, Román AR; Grupo Redactor de GESIDA/SEIMC. Executive summary: Pre-exposure prophylaxis for prevention of HIV infection in adults in Spain: July 2016. *Enfermedades Infecciosas y Microbiología Clínica*. 2017;35:377-83. IF: 1.714. Article.
- Pérez-Montarelo D, Viedma E, Murcia M, Muñoz-Gallego I, Larrosa N, Brañas P, Fernández-Hidalgo N, Gavaldà J, Almirante B, Chaves F. Pathogenic Characteristics of *Staphylococcus aureus* Endovascular Infection Isolates from Different Clonal Complexes. *Frontiers in Microbiology*. 2017;8:917. IF: 4.076. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Gismondo MR, Hofmann J, Izopet J, Kühn S, Lombardi A, Marcos MA, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes DW.

European Multicenter Study on Analytical Performance of DxN Veris System HCV Assay. *Journal of Clinical Microbiology*. 2017;55:1186-92. IF: 3.712. Article.

- Nelson M, Rubio R, Lazzarin A, Romanova S, Luetkemeyer A, Conway B, Molina JM, Xu D, Srinivasan S, Portsmouth S. Safety and Efficacy of Pegylated Interferon Lambda, Ribavirin, and Daclatasvir in HCV and HIV-Coinfected Patients. *Journal of Interferon and Cytokine Research*. 2017;37:103-11. IF: 2.377. Article.
- Sulkowski MS, Fessel WJ, Lazzarin A, Berenguer J, Zakharova N, Cheinquer H, Côté P, Dieterich D, Gadano A, Matthews G, Molina JM, Moreno C, Pineda JA, Pulido F, Rivero A, Rockstroh J, Hernandez D, McPhee F, Eley T, Liu Z, Mendez P, Hughes E, Noviello S, Ackerman P. Efficacy and safety of daclatasvir plus pegylated-interferon alfa 2a and ribavirin in previously untreated HCV subjects coinfected with HIV and HCV genotype-1: a Phase III, open-label study. *Hepatology International*. 2017;11:188-98. IF: 2.164. Article.
- Rivero A, Pérez-Molina JA, Blasco AJ, Arribas JR, Crespo M, Domingo P, Estrada V, Iribarren JA, Knobel H, Lázaro P, López-Aldeguer J, Lozano F, Moreno S, Palacios R, Pineda JA, Pulido F, Rubio R, de la Torre J, Tuset M, Gatell JM. Costs and cost-efficacy analysis of the 2016 GESIDA/ Spanish AIDS National Plan recommended guidelines for initial antiretroviral therapy in HIV-infected adults. *Enfermedades Infecciosas y Microbiología Clínica*. 2017; 35:88-99. IF: 1.714. Article.
- Perez-Molina JA, Rubio R, Rivero A, Pasquau J, Suárez-Lozano I, Riera M, Estébanez M, Palacios R, Sanz-Moreno J, Troya J, Mariño A, Antela A, Navarro J, Esteban H, Moreno S; GeSIDA 7011 Study Group. Simplification to dual therapy (atazanavir/ritonavir plus lamivudine) versus standard triple therapy [atazanavir/ritonavir plus two nucleos (t)ides] in virologically stable patients on antiretroviral therapy: 96 week results from an open-label, non-inferiority, randomized clinical trial (SALT study). *Journal of Antimicrobial Chemotherapy*. 2017;72:246-53. IF: 5.071. Article.
- de la Calle GM, Pulido F, Sanchez-Conde M, de Quiros JCLB. Long-term comparative and prospective cohort study of renal function in patients with HIV infection treated with tenofovir disoproxil fumarate. *HIV & AIDS Review*. 2017;16:77-83. IF: N/A. Article.
- Illescas BM, Rojo J, Delgado R, Martín N. Multivalent Glycosylated Nanostructures to Inhibit Ebola Virus Infection. *Journal of the American Chemical Society*. 2017;139:6018-25. IF: 13.858. Review.
- Garzo-Caldas N, Ruiz-Sainz E, Vila-Bedmar S, Llamas-Velasco S, Hernández-Lain A, Ruiz-Morales J, Folgueira-López D, Villarejo-Galende A. Enteroviral T-Cell Encephalitis Related to Immunosuppressive Therapy Including Rituximab. *Neurology*. 2017;89:408-9. IF: 7.592. Editorial Material.
- Domínguez-Domínguez L, de Lagarde-Sebastián M, de Miguel-Campo B, Pulido F. Streptococcus salivarius spontaneous bacterial peritonitis in a HIV/HCV-co-infected patient treated with direct antiviral agents. *Enfermedades Infecciosas y Microbiología Clínica*. 2017;35:199. IF: 1.714. Letter.

MOLECULAR EPIDEMIOLOGY OF HOSPITAL AND EMERGING INFECTIONS



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
TOTAL		3

- 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
- 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, extended to 30/06/2019

- 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 31/06/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	16	52.996
Reviews	1	1.714
Editorials	1	1.125
Total	18	55.835
Letters	5	11.371
Total	23	67.206

- Gómez S, Chaves F, Orellana MA. Clinical, epidemiological and microbiological characteristics of relapse and re-infection in *Clostridium difficile* infection. *Anaerobe*. 2017; 48:147-51. IF: 2.278. Article.
- Del Barrio-Tofiño E, López-Causapé C, Cabot G, Rivera A, Benito N, Segura C, Montero MM, Sorlí L, Tubau F, Gómez-Zorrilla S, Tormo N, Durá-Navarro R, Viedma E, Resino-Foz E, Fernández-Martínez M, González-Rico C, Alejo-Cancho I, Martínez JA, Labayru-Echverría C, Dueñas C, Ayestarán I, Zamorano L, Martínez-Martínez L, Horcajada JP, Oliver A. Genomics and Susceptibility Profiles of Extensively Drug-Resistant *Pseudomonas aeruginosa* Isolates from Spain. *Antimicrobial Agents and Chemotherapy*. 2017;61(11):e01589-17. IF: 4.302. Article.
- Norman FF, Lopez-Polin A, Salvador F, Trevino B, Calabuig E, Torrus D, Soriano-Arandes A, Ruiz-Giardin JM, Monge-Maillo B, Perez-Molina JA, Perez-Ayala A, Garcia M, Rodriguez A, Martinez-Serrano M, Zubero M, Lopez-Velez R; REDIVI Study Grp. Imported malaria in Spain (2009-2016): results from the +REDIVI Collaborative Network. *Malaria Journal*. 2017;16:407. IF: 2.715. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Izopet J, Lombardi A, Marcos M, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. A European multicentre study on the comparison of HBV viral loads between VERIS HBV assay and Roche COBAS (R) TAQMAN (R) HBV test, Abbott RealTime HBV assay, Siemens VERSANT HBV assay, and

- Qiagen artus HBV RG kit. *Journal of Clinical Virology*. 2017;95:76-83. IF: 3.051. Article.
- San-Juan R, Perez-Montarello D, Viedma E, Lalueza A, Fortun, J, Loza E, Pujol M, Ardanuy C, Morales I, de Cueto M, Resino-Foz E, Morales-Cartagena MA, Fernandez-Ruiz M, Rico A, Romero MP, de Mera MF, Lopez-Medrano F, Orellana MA, Aguado JM, Chaves F. Pathogen-related factors affecting outcome of catheter-related bacteremia due to methicillin-susceptible *Staphylococcus aureus* in a Spanish multicenter study. *European Journal of Clinical Microbiology & Infectious Diseases*. 2017;36:1757-65. IF: 2.727. Article.
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- Villa J, Arana DM, Viedma E, Perez-Montarello D, Chaves F. Characterization of mobile genetic elements carrying VIM-1 and KPC-2 carbapenemases in *Citrobacter freundii* isolates in Madrid. *International Journal of Medical Microbiology*. 2017;307:340-5. IF: 3.391. Article.
- Ramos JT, Villar S, Bouza E, Bergon-Sendin E, Perez Rivilla A, Collados CT, Andreu M, Reyes CS, Campos-Herrero MI, de Heredia JL, Herrera MCL, Alonso PA, Pallás-Alonso CR, Cuenca-Estrella M, Candineo Study Group. Performance of a Quantitative PCR-Based Assay and Beta-D-Glucan Detection for Diagnosis of Invasive Candidiasis in Very-Low-Birth-Weight Preterm Neonatal Patients (CANDINEO Study). *Journal of Clinical Microbiology*. 2017;55:2752-64. IF: 3.712. Article.
- Muñoz-Gallego I, Lora-Tamayo J, Pérez-Montarello D, Brañas P, Viedma E, Chaves F. Influence of molecular characteristics in the prognosis of methicillin-resistant *Staphylococcus aureus* prosthetic joint infections: beyond the species and the antibiogram. *Infection*. 2017;45:533-7. IF: 2.468. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Hofmann J, Izopet J, Kalus U, Lombardi A, Marcos M, Mileto D, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. European Multicenter Study on Analytical Performance of Veris HIV-1 Assay. *Journal of Clinical Microbiology*. 2017;55:2055-63. IF: 3.712. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Hofmann J, Izopet J, Kühn S, Lombardi A, Mancon A, Marcos MA, Mileto D, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. A European multicentre study on the comparison of HIV-1 viral loads between VERIS HIV-1 Assay and Roche COBAS (R) TAQMAN (R) HIV-1 test, Abbott RealTime HIV-1 Assay, and Siemens VERSANT HIV-1 Assay. *Journal of Clinical Virology*. 2017;92:75-82. IF: 3.051. Article.
- Carrasco-Anton N, Lopez-Medrano F, Fernandez-Ruiz M, Carrillo E, Moreno J, Garcia-Reyne A, Perez-Ayala A, Rodriguez-Ferrero ML, Lumbreras C, San-Juan R, Alvar J, Aguado JM. Environmental Factors as Key Determinants for Visceral Leishmaniasis in Solid Organ Transplant Recipients, Madrid, Spain. *Emerging Infectious Diseases*. 2017;23:1155-9. IF: 8.222. Article.
- Pérez-Montarello D, Viedma E, Murcia M, Muñoz-Gallego I, Larrosa N, Brañas P, Fernández-Hidalgo N, Gavaldà J, Almirante B, Chaves F. Pathogenic Characteristics of *Staphylococcus aureus* Endovascular Infection Isolates from Different Clonal Complexes. *Frontiers in Microbiology*. 2017;8:917. IF: 4.076. Article.
- García-Alvarez A, Vela AI, San Martín E, Chaves F, Fernández-Garayzábal JF, Lucas D, Cid D. Characterization of *Pasteurella multocida* associated with ovine pneumonia using multi-locus sequence typing (MLST) and virulence-associated gene profile analysis and comparison with porcine isolates. *Veterinary Microbiology*. 2017;204:180-7. IF: 2.628. Article.
- Fernandez Rodriguez B, Peña Gonzalez L, Calvo MC, Chaves Sanchez F, Pallas Alonso CR, de Alba Romero C. Oral care in a neonatal intensive care unit. *Journal of Maternal-Fetal & Neonatal Medicine*. 2017;30:953-7. IF: 1.826. Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Gismondo MR, Hofmann J, Izopet J, Kühn S, Lombardi A, Marcos MA, Sauné K, O'Shea S, Pérez-Rivilla A, Ramble J,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes DW. European Multicenter Study on Analytical Performance of DxN Veris System HCV Assay. *Journal of Clinical Microbiology*. 2017;55:1186-92. IF: 3.712. Article.
- Muñoz-Gallego I, Candela Ganoza G, Chaves F, San Juan R, Orellana MA. Listeria monocytogenes bacteraemia over an 11-year period: Clinical and epidemiologic characteristics in the south area of Madrid. *Journal of Infection*. 2017;75:276-8. IF: 4.201. Letter
 - Oteo J, Bou G, Chaves F, Oliver A. Microbiological methods for surveillance of carrier status of multiresistant bacteria. *Enfermedades Infecciosas y Microbiología Clínica*. 2017; 35:667-75. IF: 1.714. Review.
 - Silva JT, Fernández-Ruiz M, Pérez de Ayala A, López-Medrano F. Fever, abdominal tenderness and peripheral eosinophilia in a frequent traveler. *Medicina Clínica*. 2017; 148:100. IF: 1.125. Editorial Material.
 - Recio R, Chaves F, Reyes CA, Orellana MÁ. Infective endocarditis due to *Lactobacillus rhamnosus*: Risks of probiotic consumption in a patient with structural heart disease. *Enfermedades Infecciosas y Microbiología Clínica*. 2017;35:609-10. IF: 1.714. Letter.

- Fernández-Ruiz M, Carretero O, Orellana MÁ. Bacteraemia due to non-toxigenic *Vibrio cholerae*: The risks of eating seafood in a cirrhotic patient. *Gastroenterología y Hepatología*. 2017;40:358-60. IF: 0.917. Letter.
- Arenas-Valls N, Chacón S, Pérez A, Del Pozo R. Atypical Chlamydia Psittaci Pneumonia. Four Related Cases. *Archivos de Bronconeumología*. 2017;53:277-9. IF: 2.979. Letter.

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^a Alunda Rodríguez
Project No.: FP7-Health-2013-Innovation-1, Nr. 603240
Funding Body: European Commission
- Title: Inmunización frente a la hemoncosis ovina con el antígeno recombinante rHc23.
Principal Investigator: José M^a Alunda Rodríguez
Project No.: CICYT AGL2014-54049-R

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	1	4.519
Total	1	4.519

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Borsari C, Santarem N, Torrado J, Olías AI, Corral MJ, Baptista C, Gul S, Wolf M, Kuzikov M, Ellinger B, Witt G, Gribbon P, Reinshagen J, Linciano P, Tait A, Costantino L, Freitas-Junior LH, Moraes CB, Bruno Dos Santos P, Alcântara LM, Franco CH, Bertolacini CD, Fontana V, Tejera Nevado P, Clos J, Alunda JM, Cordeiro-da-Silva A, Ferrari S, Costi MP. Methoxylated 2'-hydroxychalcones as antiparasitic hit compounds. European Journal of Medicinal Chemistry. 2017;126: 1129-35. IF: 4.519. Article.

TRANSLATIONAL RESEARCH IN MALARIA



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Ramón Areces	1
Noncompetitive	Various	1
TOTAL		2

- Title: Rastreo del daño tisular y de la respuesta adaptativa en las hemocromatosis hereditarias raras para la identificación de dianas terapéuticas específicas.
Principal Investigator: José Manuel Bautista Santa Cruz
Funding Body: Fundación Ramón Areces
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 Centurión, S.L.
Start date: 15/09/2014
End date: 30/09/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	1	5.476
Total	1	5.476

- Azcárate IG, Sánchez-Jaut S, Marín-García P, Linares M, Pérez-Benavente S, García-Sánchez M, Uceda J, Kamali AN, Morán-Jiménez MJ, Puyet A, Diez A, Bautista JM. Iron supplementation in mouse expands cellular innate defences in spleen and defers lethal malaria infection. *Biochimica et Biophysica Acta-Molecular Basis of Disease.* 2017;1863:3049-59. IF: 5.476. Article.

INFECTIOUS PATHOLOGIES**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	6
Competitive	FIPSE	1
Competitive	Sociedad Española de Enfermedades Infecciosas en Microbiología Clínica	1
Competitive	Fundación Mutua Madrileña	3
Noncompetitive	Various	1
TOTAL		12

- Title: Desarrollo de un prototipo de aplicador de catéter para minimizar los riesgos de flebitis o bacteriemia asociada a la infección de catéteres venosos periféricos y validación clínica en animales.
Principal Investigator: Francisco López Medrano
Project No.: DTS16/00191
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2018
- Title: Validación de una estrategia de prevención de infección en portadores de trasplante renal basada en un budle individualizado de medias y un score del grado neto de inmunosupresión.
Principal Investigator: Francisco López Medrano
Project No.: PI16/00793
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Title: Utilidad de la monitorización de la viremia por anellovirus 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: 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, extended to 30/06/2019
- 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.
Principal Investigator: José Mª 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: Estudios de viabilidad de las innovaciones en salud "Plan de comercialización aplicador de catéter y catéter que incorpora dicho aplicador".
Principal Investigator: Francisco López Medrano
Project No.: FIPSE 2017/0038
Funding Body: Fundación para la Innovación y la Prospectiva en Salud en España (FIPSE)

Start date: 27/01/2017
End date: 27/07/2017

- Title: Estudio clínico, farmacológico y microbiológico del tratamiento optimizado con beta-lactámicos en combinación con colistina de la infección osteoarticular con y sin material ortopédico por bacilos Gram-Negativos resistentes a Fluoroquinolonas.
Principal Investigator: Jaime Lora-Tamayo Morillo-Velarde
Project No.: PI16/00793
Funding Body: Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica
Start date: 01/09/2017
End date: 01/09/2019

- 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 (FMM)
Start date: 27/10/2014
End date: 26/10/2017, extended to 30/11/2018

- 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 (FMM)
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 (FMM)

Start date: 14/07/2012
End date: 13/09/2015, extended to 31/05/2018

- Title: 2015 ESCMID study group research grant application. INCREMET-SOT. An international consortium for the clinical study of bloodstream infections caused by multi-drug-resistant enterobacteriaceae in solid organ transplantation.
Principal Investigator: José Mª Aguado García
Funding Body: European Society for Paediatric Infectious Diseases
Start date: 01/12/2015
End date: 01/12/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	29	131.124
Editorials	1	1.125
Total	30	132.249
Letters	5	9.522
Total	35	141.771

- Navarro D, San-Juan R, Manuel O, Giménez E, Fernández-Ruiz M, Hirsch HH, Grossi PA, Aguado JM; ESGICH CMV Survey Study Group, European Study Group of Infections in Compromised Hosts (ESGICH), Society of Clinical Microbiology Infectious Diseases (ESCMID). Cytomegalovirus infection management in solid organ transplant recipients across European centers in the time of molecular diagnostics: An ESGICH survey. *Transplant Infectious Disease*. 2017;19:e12773. IF: 1.719. Article.
- Vena A, Bouza E, Valerio M, Padilla B, Paño-Pardo JR, Fernández-Ruiz M, Díaz Martín A, Salavert M, Mularoni A, Puig-Asensio M, Muñoz P; CANDIPOP Project. Candidemia in non-ICU surgical wards: Comparison with medical wards. *PLoS One*. 2017;12(10):e0185339. IF: 2.806. Article.
- San-Juan R, Perez-Montarelo D, Viedma E, Laluez A, Fortun J, Loza E, Pujol M, Ardanuy C, Morales I, de Cueto M, Resino-Foz E, Morales-Cartagena MA, Fernandez-Ruiz M, Rico A, Romero MP, de Mera MF, Lopez-Medrano F, Orellana MA, Aguado JM, Chaves F. Pathogen-related factors affecting outcome of catheter-related bacteremia due to methicillin-susceptible *Staphylococcus aureus* in a Spanish multicenter study. *European Journal of Clinical Microbiology & Infectious Diseases*. 2017;36:1757-65. IF: 2.727. Article.
- Vena A, Muñoz P, Padilla B, Valerio M, Sanchez MI, Puig-Asensio M, Fortun J, Fernandez-Ruiz M, Merino P, Losa JE, Loza A, Rivas RA, Bouza E; CANDIPOP Project, GEIH-GEMICOMED (SEIMC), and REIPI. Is routine ophthalmoscopy really necessary in candidemic patients? *PLoS One*. 2017;12(10):e0183485. IF: 2.806. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Martín-Díaz A, Fradejas Villajos I, Tiago Silva J, López-Medrano F, Pérez-Ayala Balzola A. Bladder schistosomiasis. *Medicina Clinica*. 2017;149:e29. IF: 1.125. Article.
- Ruiz-Ramos J, Vidal-Cortés P, Díaz-Lamas A, Reig-Valero R, Roche-Campo F, Del Valle-Ortiz M, Nuvials-Casals X, Ortiz-Piquer M, Andaluz-Ojeda D, Tamayo-Lomas L, Blasco-Navalpotro MA, Rodriguez-Aguirregabiria M, Aguado J, Ramirez P. Ventilator-associated pneumonia by methicillin-susceptible *Staphylococcus aureus*: do minimum inhibitory concentrations to vancomycin and daptomycin matter? *European Journal of Clinical Microbiology & Infectious Diseases*. 2017;36:1569-75. IF: 2.727. Article.
- Fernández-Ruiz M, Guinea J, Lora-Pablos D, Zaragoza Ó, Puig-Asensio M, Almirante B, Cuenca-Estrella M, Aguado JM; CANDIPOP Project, GEIH-GEMICOMED (SEIMC) and REIPI. Impact of fluconazole susceptibility on the outcome of patients with candidaemia: data from a population-based surveillance. *Clinical Microbiology and Infection*. 2017;23:672.e1-672.e11. IF: 5.292. Article.
- Aguado JM, Cruz JJ, Virizuela JA, Aguilar M, Carmona A, Cassinello J, Gudiol C, Jiménez Fonseca P, Lizasoain M, Marco F, Ruiz I, Ruiz M, Salavert M, Vicente D, Carratalà J. Management of Infection and Febrile Neutropenia in Patients with Solid Cancer. *Enfermedades Infecciosas y Microbiología Clínica*. 2017;35:451-60. IF: 1.714. Article.
- Muñoz-Gallego I, Lora-Tamayo J, Pérez-Montarello D, Brañas P, Viedma E, Chaves F. Influence of molecular characteristics in the prognosis of methicillin-resistant *Staphylococcus aureus* prosthetic joint infections: beyond the species and the antibiogram. *Infection*. 2017;45:533-7. IF: 2.468. Article.
- Gudiol C, Royo-Cebrecos C, Abdala E, Akova M, Alvarez R, Maestro-de La Calle G, Cano A, Cervera C, Clemente WT, Martin-Davila P, Freifeld A, Gomez L, Gottlieb T, Gurgui M, Herrera F, Manzur A, Maschmeyer G, Meije Y, Montejo M, Peghin M, Rodriguez-Bano J, Ruiz-Camps I, Sukienik TC, Tebe C, Carratalà J; BICAR Study Grp. Efficacy of β -Lactam/ β -Lactamase Inhibitor Combinations for the Treatment of Bloodstream Infection Due to Extended-Spectrum- β -Lactamase-Producing Enterobacteriaceae in Hematological Patients with Neutropenia. *Antimicrobial Agents and Chemotherapy*. 2017;61(8):e00164-17. IF: 4.302. Article.
- San-Juan R, Fernández-Ruiz M, Gasch O, Camoëz M, López-Medrano F, Domínguez MÁ, Almirante B, Padilla B, Pujol M, Aguado JM; REIPI/GEIH Study Group. High vancomycin MICs predict the development of infective endocarditis in patients with catheter-related bacteraemia due to methicillin-resistant *Staphylococcus aureus*. *Journal of Antimicrobial Chemotherapy*. 2017;72:2102-9. IF: 5.071. Article.
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- Lora-Tamayo J, Senneville É, Ribera A, Bernard L, Dupon M, Zeller V, Li HK, Arvieux C, Clauss M, Uçkay I, Vigante D, Ferry T, Iribarren JA, Peel TN, Sendi P, Miksic NG, Rodríguez-Pardo D, Del Toro MD, Fernández-Sampedro M, Dapunt U, Huotari K, Davis JS, Palomino J, Neut D, Clark BM, Gottlieb T, Trebše R, Soriano A, Bahamonde A, Guío L, Rico A, Salles MJ, Pais MJ, Benito N, Riera M, Gómez L, Aboltins CA, Esteban J, Horcajada JP, O'Connell K, Ferrari M, Skaliczki G, San Juan R, Cobo J, Sánchez-Somolinos M, Ramos A, Giannitsioti E, Jover-Sáenz A, Baraia-Etxaburu JM, Barbero JM, Choong PF, Aseray N, Ansart S, Le Moal G, Zimmerli W, Ariza J; and the Group of Investigators for Streptococcal Prosthetic Joint Infection. The Not-So-Good Prognosis of Streptococcal Periprosthetic Joint Infection Managed by Implant Retention: The Results of a Large Multicenter Study. *Clinical Infectious Diseases*. 2017;64:1742-52. IF: 8.216. Article.
- Muñoz P, Vena A, Padilla B, Valerio M, Sanchez MI, Puig-Asensio M, Fortún J, Fernández-Ruiz M, Merino P, Losa JE, Loza A, Rivas RA, Bouza E; CANDIPOP Project, GEIH-GEMICOMED (SEIMC), and REIPI. No evidence of increased ocular involvement in candidemic patients initially treated with echinocandins. *Diagnostic Microbiology and Infectious Disease*. 2017;88:141-4. IF: 2.401. Article.
- Lebeaux D, Freund R, van Delden C, Guillot H, Marbus SD, Matignon M, Van Wijngaerden E, Douvry B, De Greef J, Vuotto F, Tricot L, Fernández-Ruiz M, Dantal J, Hirzel C, Jais JP, Rodriguez-Navarro V, Jacobs F, Lortholary O, Coussemant J; European Study Group for Nocardia in Solid Organ Transplantation. Outcome and Treatment of Nocardiosis After Solid Organ Transplantation: New Insights from a European Study. *Clinical Infectious Diseases*. 2017;64:1396-405. IF: 8.216. Article.
- Cuervo G, García-Vidal C, Puig-Asensio M, Vena A, Meije Y, Fernández-Ruiz M, González-Barberá E, Blanco-Vidal MJ, Manzur A, Cardozo C, Gudiol C, Montejo JM, Pemán J, Ayats J, Aguado JM, Muñoz P, Marco F, Almirante B, Carratalà J; GEMICOMED (SEIMC), and REIPI. Echinocandins Compared to Fluconazole for Candidemia of a Urinary Tract Source: A Propensity Score Analysis. *Clinical Infectious Diseases*. 2017;64:1374-9. IF: 8.216. Article.
- Peghin M, Hirsch HH, Len Ó, Codina G, Berastegui C, Sáez B, Solé J, Cabral E, Solé A, Zurbano F, López-Medrano F, Román A, Gavaldá J. Epidemiology and Immediate Indirect Effects of Respiratory Viruses in Lung Transplant Recipients: A 5-Year Prospective Study. *American Journal of Transplantation*. 2017;17:1304-12. IF: 6.165. Article.
- López-Aladid R, Guiu A, Sanclemente G, López-Medrano F, Cofán F, Mosquera MM, Torre-Cisneros J, Vidal E, Moreno A, Aguado JM, Cordero E, Martín-Gandul C, Pérez-Romero P, Carratalá J, Sabé N, Niubó J, Cervera C, Cervilla A, Bodro M, Muñoz P, Fariñas C, Codina MG, Aranzamendi M, Montejo M, Len O, Marcos MA; Group for Study of Infection in Transplantation of the Spanish Society of Infect. Detection of cytomegalovirus drug resistance mutations in solid organ transplant recipients with suspected resistance. *Journal of Clinical Virology*. 2017;90:57-63. IF: 3.051. Article.
- Pelegrín I, Lora-Tamayo J, Gómez-Junyent J, Sabé N, García-Somoza D, Gabarrós A, Ariza J, Viladrich PF, Cabellos C. Management of Ventriculoperitoneal Shunt Infections in Adults: Analysis of Risk Factors Associated with Treatment Failure. *Clinical Infectious Diseases*. 2017;64:989-97. IF: 8.216. Article.
- Cordero E, Roca-Oporto C, Bulnes-Ramos A, Aydillo T, Gavaldà J, Moreno A, Torre-Cisneros J, Montejo JM, Fortun J, Muñoz P, Sabé N, Fariñas MC, Blanes-Julia M, López-Medrano F, Suárez-Benjumea A, Martínez-Atienza J, Rosso-Fernández C, Pérez-Romero P; TRANSGRIPE 1-2 Study Group. Two Doses of Inactivated Influenza Vaccine Improve Immune Response in Solid Organ Transplant Recipients: Results of TRANSGRIPE 1-2, a Randomized Controlled Clinical Trial. *Clinical Infectious Diseases*. 2017;64:829-38. IF: 8.216. Article.
- Fernández-Ruiz M, Parra P, López-Medrano F, Ruiz-Merlo T, González E, Polanco N, Origüen J, San Juan R, Andrés A, Aguado JM. Serum sCD30: A promising biomarker for predicting the risk of bacterial infection after kidney transplantation. *Transplant Infectious Disease*. 2017;19: e12668. IF: 1.719. Article.
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- Ariza J, Cobo J, Baraia-Etxaburu J, Benito N, Bori G, Cabo J, Corona P, Esteban J, Horcajada JP, Lora-Tamayo J, Murillo O, Palomino J, Parra J, Pigrau C, Del Pozo JL, Riera M, Rodríguez D, Sánchez-Somolinos M, Soriano A, Del Toro MD, de la Torre B; Spanish Network for the Study of Infectious Diseases and the Sociedad Española d, Microbiología Clínica (SEIMC). Executive summary of management of prosthetic joint infections. Clinical practice guidelines by the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC). *Enfermedades Infecciosas y Microbiología Clínica*. 2017; 35:189-95. IF: 1.714. Article.
- Palacios-Baena ZR, Gutiérrez-Gutiérrez B, De Cueto M, Viale P, Venditti M, Hernández-Torres A, Oliver A, Martínez-Martínez L, Calbo E, Pintado V, Gasch O, Almirante B, Antonio Lepe J, Pitout J, Akova M, Peña-Miralles C, Schwaber MJ, Tumbarello M, Tacconelli E, Origüen J, Prim N, Bou G, Gimarellou H, Bermejo J, Hamprecht A, Pérez F, Almela M, Lowman W, Hsueh PR, Navarro-San Francisco C, Torre-Cisneros J, Carmeli Y, Bonomo RA, Paterson DL, Pascual Á, Rodríguez-Baño J; REIPI/ESGBIS/INCREMENT Group. Development and validation of the INCREMENT-ESBL predictive score for mortality in patients with bloodstream infections due to extended-spectrum beta-lactamase-producing Enterobacteriaceae. *Journal of Antimicrobial Chemotherapy*. 2017;72:906-13. IF: 5.071. Article.
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- Silva JT, Fernández-Ruiz M, Pérez de Ayala A, López-Medrano F. Fever, abdominal tenderness and peripheral eosinophilia in a frequent traveler. *Medicina Clinica*. 2017; 148:100. IF: 1.125. Editorial Material.
- Muñoz-Gallego I, Candela Ganoza G, Chaves F, San Juan R, Orellana MA. Listeria monocytogenes bacteraemia over an 11-year period: Clinical and epidemiologic characteristics in the south area of Madrid. *Journal of Infection*. 2017;75:276-8. IF: 4.201. Letter.
- Noreña I, Cabrera-Marante O, Fernández-Ruiz M. Endocarditis due to *Lactobacillus rhamnosus* in a patient with bicuspid aortic valve: Potential role for the consumption of probiotics? *Medicina Clinica*. 2017; 149:181-2. IF: 1.125. Letter.
- Aragón-Miguel R, Calleja-Algarra A, Morales-Raya C, López-Medrano F, Pérez-Ayala A, Rodríguez-Peralto JL, Ortiz-Romero PL, Maroñas-Jiménez L. Alternaria infectoria skin infection in a renal transplant recipient: an emerging phaeohyphomycosis of occidental countries? *International Journal of Dermatology*. 2017;56:153-5. IF: 1.560. Letter.
- Fernández-Ruiz M, Carretero O, Orellana MÁ. Bacteraemia due to non-toxigenic *Vibrio cholerae*: The risks of eating seafood in a cirrhotic patient. *Gastroenterología y Hepatología*. 2017;40:358-60. IF: 0.917. Letter.

PATENTS

- **Title:** Aplicador de catéteres y catéter que incorpora aplicador.
Number: PCT/ES2016/070403.
Type: PCT.
Inventor: Francisco López Medrano.
Owner: 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.
Inventor: Francisco López Medrano.
Owner: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Date of application: 28/05/2015

TRANSLATIONAL RESEARCH GROUP ON PEDIATRIC INFECTIOUS DISEASES



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Noncompetitive	Various	1
TOTAL		4

- Title: Estudio multicéntrico sobre la respuesta celular T materna y neonatal en la infección congénita por citomegalovirus.
Principal Investigator: Daniel Blázquez Gamero
Project No.: PI16/00807
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title: Diagnóstico de infecciones nosocomiales en pacientes pediátricos críticos: Comparación de un test molecular con hemocultivos convencionales.
- Title: Principal Investigator: Pablo Rojo Conejo
Project No.: PI16/0950
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- 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: 31/12/2018

- Title: Early treated perinatally HIV infected individuals: improving children's actual life.

Principal Investigator: Pablo Rojo Conejo
Funding Body: Fondazione Penta Onlus
Start date: 18/07/2016
End date: 17/07/2017, extended to 30/09/2018

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

- Title: Multi-centre EuRopean study of MAjor Infectious Disease Syndromes (PED-MERMAIDS) que forma parte del Proyecto Platform for European Preparedness Against (Re-) Emerging Epidemics (PREPARE).
Principal Investigator: Federico Martínón Torres.
Collaborator Investigators: Cristina Epalza Ibarrondo, Pablo Rojo Conejo
Funding Body: Unión Europea
Start date: 2016
- Title: Global Antimicrobial Resistance, Prescribing, and Efficacy in Neonates and Children (GARPEC).
Principal Investigator: Pablo Rojo Conejo
Funding Body: PENTA-ID
Start date: 2016
End date: 2017
- Title: Respiratory Syncytial virus Consortium in EUrope (RESCEU): Presumed risk factors and biomarkers for RSV-related severe disease and related sequelae.

Principal Investigator: Federico Martínón Torres
Investigador Principal Hospital 12 de Octubre: Pablo Rojo
Collaborator Investigator: Cristina Epalza Ibarrondo
Funding Body: University of Oxford, Funder Innovative Medicines Initiative (IMI).
Start date: 2017

- Title: Evaluación de factores genéticos en la susceptibilidad y pronóstico de las infecciones por enterovirus (Enterogen).
Principal Investigator: Federico Martínón Torres
Principal Investigator Hospital 12 de Octubre: Cristina Epalza Ibarrondo
Funding Body: Grupo de Investigación en Genética, Vacunas, Infecciones y Pediatría (GENVIP) C.H.U. de Santiago
Start date: 2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	7	32.724
Reviews	1	2.486
Editorials	2	4.058
Total	10	39.268

- Jiménez de Ory S, González-Tomé MI, Fortuny C, Mellado MJ, Soler-Palacin P, Bustillo M, Ramos JT, Muñoz-Fernández MA, Navarro ML; Working groups of CoRISpe. New diagnoses of human immunodeficiency virus infection in the Spanish pediatric HIV Cohort (CoRISpe) from 2004 to 2013. *Medicine.* 2017;96(39):e7858. IF: 1.803. Article.
- Prieto LM, McPhee CF, Rojas P, Mazariegos D, Munoz E, Mellado MJ, Holguin A, Navarro ML, Gonzalez-Tome M, Ramos JT; Madrid Cohort HIV-Infected Mother. Pregnancy outcomes in perinatally HIV-infected young women in Madrid, Spain: 2000-2015. *PLoS One.* 2017; 12(8):e0183558. IF: 2.806. Article.
- Tagarro A, Otheo E, Baquero-Artigao F, Navarro ML, Velasco R, Ruiz M, Penín M, Moreno D, Rojo P, Madero R; CORTEEC Study Group. Dexamethasone for Parapneumonic Pleural Effusion: A Randomized, Double-Blind, Clinical Trial. *Journal of Pediatrics.* 2017;185:117-23. IF: 3.874. Article.
- Penazzato M, Gnanashanmugam D, Rojo P, Lallemand M, Lewis LL, Rocchi F, Saint Raymond A, Ford N, Hazra R, Giaquinto C, Belew Y, Gibb DM, Abrams EJ; Paediat Antiretroviral Working Grp. Optimizing Research to Speed Up Availability of Pediatric Antiretroviral Drugs and Formulations. *Clinical Infectious Diseases.* 2017;64:1597-603. IF: 8.216. Article.
- Goycochea-Valdivia WA, Baquero-Artigao F, Del Rosal T, Frick MA, Rojo P, Echeverría MJ, Noguera-Julian A, Bringué X, Saavedra-Lozano J, Vives-Oñós I, Moliner E, Cilleruelo MJ, Cuadrado I, Colino E, Castells L, Tagarro A, Vilas J, Soler-Palacin P, Blázquez-Gamero D; REDICCMV Study Group. Cytomegalovirus DNA Detection by Polymerase Chain Reaction in Cerebrospinal Fluid of Infants with Congenital Infection: Associations With Clinical Evaluation at Birth and Implications for Follow-up. *Clinical Infectious Diseases.* 2017;64:1335-42. IF: 8.216. Article.
- Rojas Sánchez P, Prieto L, Jiménez De Ory S, Fernández Cooke E, Navarro ML, Ramos JT, Holguín Á; Madrid Cohort of HIV-1 Infected Children and Adolescents Integrated in the Paed. Impact of lopinavir-ritonavir exposure in HIV-1 infected children and adolescents in Madrid, Spain during 2000-2014. *PLoS One.* 2017;12(3):e0173168. IF: 2.806. Article.
- Thorne C, Turkova A, Indolfi G, Venturini E, Giaquinto C, Goetghebuer T, Hainaut M, Van der Kelen E, Koenigs C, Mantzsch K, Baumann U, de Martino M, Galli L, Giacomet V, Nicolini LA, Del Puente F, Gabiano C, Guarino A, Martinazzi S, Miniaci A, Dobsz S, Marcynska M, Ene L, Duiculescu D, Milenko M, Dodonov K, Latysheva I, Voronin E, Rojo P, Tomas Ramos J, Navarro M, Jimenez de Ory S, Sainz T, Mellado MJ, Garcia M, Perez C, Moreno D, Nunez E, Gracia M, Terol P, Neth O, Falcon L, Otero C, Rincon E, Lopez C, Luis Santos J, Couceiro J, Noguera-Julian A, Fortuny C, Soler-Palacin P, Espiau M, Mur A, Coll MT, Valmanya MT, Mayol L, Mendez

MJ, Rodrigo C, Escribano J, Rius N, Rovira N, Calavia O, Garcia L, Pineda V, Soriano-Arandes A, Rudin C, Duppenthaler A, Judd A, Malyuta R, Volokha A, Raus I, Kaleeva T, Baryshnikova Y, Soloha S, Bashkatova N, Glutshenko O, Ruban Z, Primak N, Kiseleva G; European Paediat HIV HCV. Coinfection with HIV and hepatitis C virus in 229 children and young adults living in Europe. *AIDS.* 2017;31:127-35. IF: 5.003. Article.

- Montaner J, Rojo P, Anand T, Rockstroh J. Highlights of the International Congress on Drug Therapy in HIV Infection, 23-26 October 2016, Glasgow, UK. *Journal of Virus Eradication.* 2017;3:97-100. IF: N/A. Article.
- Castillo-Campos L, Bachiller-Carnicer L, Megía-Sevilla MJ, González-Tomé MI. Secondary asplenia as a complication of severe Meningococcal Sepsis. *BMJ Case Reports.* 2017 Jan 9;2017. IF: N/A. Article.
- Luck SE, Wieringa JW, Blázquez-Gamero D, Henneke P, Schuster K, Butler K, Capretti MG, Cilleruelo MJ, Curtis

N, Garofoli F, Heath P, Iosifidis E, Klein N, Lombardi G, Lyall H, Nieminen T, Pajkrt D, Papaevangelou V, Postfay-Barbe K, Puhakka L, Roilides E, Rojo P, Saavedra-Lozano J, Shah T, Sharland M, Saxen H, Vossen ACTM; ESPID Congenital CMV Group Meeting, Leipzig 2015. Congenital Cytomegalovirus: A European Expert Consensus Statement on Diagnosis and Management. *Pediatric Infectious Disease Journal.* 2017;36:1205-13. IF: 2.486. Review.

- Grasa Lozano CD, Blázquez Gamero D, Ruiz Contreras J. Progressive bull's-eye lesions in the skin of a healthy child. *Journal of Paediatrics and Child Health.* 2017;53:1238. IF: 1.572. Editorial Material.
- Saavedra-Lozano J, Falup-Pecurariu O, Faust SN, Girschick H, Hartwig N, Kaplan S, Lorrot M, Mantadakis E, Peltola H, Rojo P, Zaoutis T, LeMair A. Bone and Joint Infections. *Pediatric Infectious Disease Journal.* 2017;36:788-99. IF: 2.486. Editorial Material.

PRIZES AND AWARDS

- Extraordinary Doctorate Prize, School of Medicine: "Características y evolución de los Programas de Prevención de la Transmisión Vertical de VIH en entornos diferentes". Winner: Luis Manuel Prieto Tato.
- Extraordinary Doctorate Prize, School of Medicine: "Factores de riesgo asociados a las secuelas neurológicas y auditivas en una cohorte nacional de niños con infección congénita por citomegalovirus". Winner: Daniel Blázquez Gamero.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

NEUROSCIENCES AND MENTAL HEALTH

COORDINATOR: JUAN CARLOS LEZA CERRO

Cognition and Psychosis

Neurodegenerative Diseases

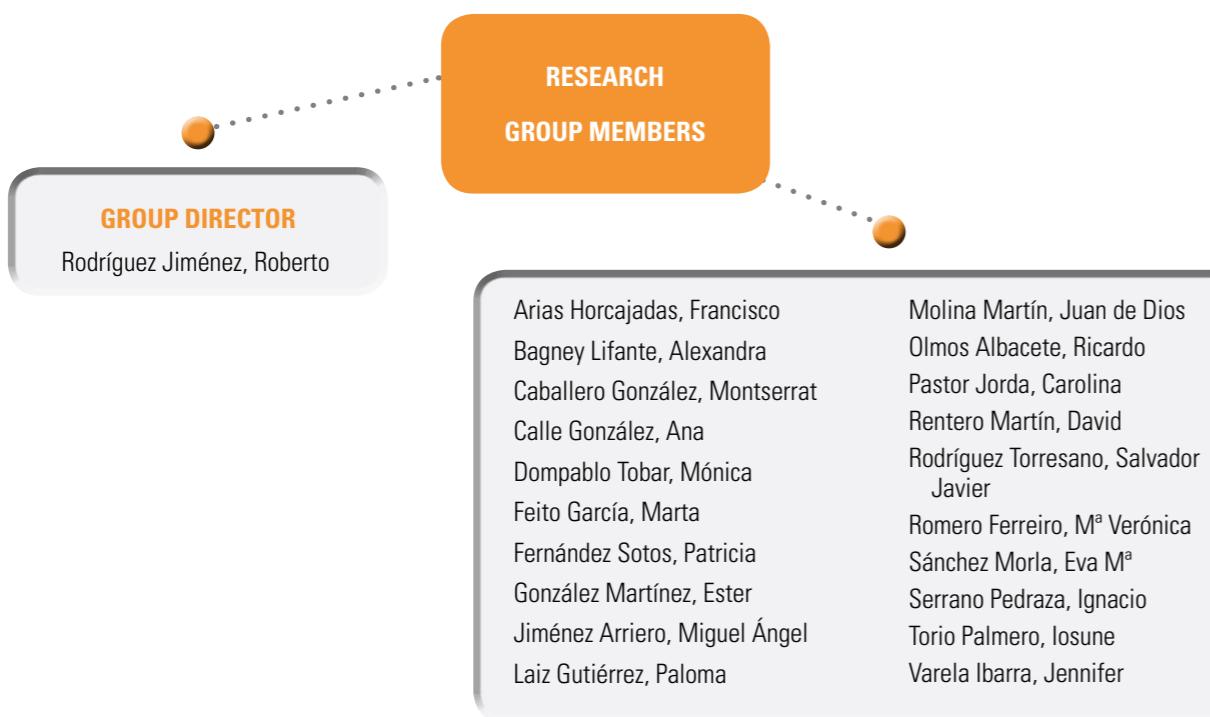
Translational Psychiatry

Neurotraumatology and
Subarachnoid Hemorrhage

Addictions and Comorbidity

Neurovascular

COGNITION AND PSYCHOSIS



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	1
TOTAL		2

- Title: Factores que influyen en la funcionalidad en la comunidad de pacientes con primeros episodios psicóticos. Estudio longitudinal de neurocognición, cognición social y síntomas clínicos. Principal Investigator: Roberto Rodríguez Jiménez Project No.: PI16/00359 Funding Body: Instituto de Salud Carlos III (ISCIII) Start date: 01/01/2017 End date: 31/12/2019
- 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

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

- Title: Entornos inteligentes controlados por respuestas fisiológicas, perceptuales y conductuales ante experiencias emocionales. Principal Investigators: Antonio Fernández Caballero, José Miguel Latorre Postigo Project No.: (DPI2016-80894-R) Funding Body: Ministerio de Economía, Industria y Competitividad Start date: 2016 End date: 2018
- Title: Simbiosis humano-avatar en ciberterapias cognitivas: Prueba de concepto para alucinaciones auditivas. Principal Investigator: Antonio Fernández Caballero Project No.: (TIN2015-72931-EXP) Funding Body: Ministerio de Economía, Industria y Competitividad Start date: 2016 End date: 2017
- Title: Influencias culturales de los estereotipos sobre el envejecimiento (ICESEN). Principal Investigator: Rocío Fernández Ballesteros Project No.: (PSI2014-52462-P) Funding Body: Ministerio de Economía, Industria y Competitividad Start date: 2016 End date: 2018
- Title: Nuevas estrategias terapéuticas basadas en la realidad virtual para el tratamiento de los trastornos por uso de alcohol. Principal Investigator: Rosa Jurado Barba

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	28	84.352
Total	28	84.352

- Villacíeros M, Olmos R, Bermejo JC. The Empathic Process and Misconceptions that Lead to Burnout in Healthcare Professionals. Spanish Journal of Psychology. 2017;20. IF: 0.502. Article.
- Peterzell DH, Serrano-Pedraza I, Widdall M, Read JCA. Thresholds for sine-wave corrugations defined by binocular disparity in random dot stereograms: Factor analysis of individual differences reveals two stereoscopic

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- mechanisms tuned for spatial frequency. *Vision Research*. 2017;141:127-35. IF: 1.971. Article.
- Fernández-Caballero A, Navarro E, Fernández-Sotos P, González P, Ricarte JJ, Latorre JM, Rodriguez-Jimenez R. Human-Avatar Symbiosis for the Treatment of Auditory Verbal Hallucinations in Schizophrenia through Virtual/Augmented Reality and Brain-Computer Interfaces. *Frontiers in Neuroinformatics*. 2017;11:64. IF: 3.870. Article.
 - Jiménez-López E, Aparicio AI, Sánchez-Morla EM, Rodríguez-Jiménez R, Vieta E, Santos JL. Neurocognition in patients with psychotic and non-psychotic bipolar I disorder. A comparative study with individuals with schizophrenia. *Journal of Affective Disorders*. 2017; 222:169-76. IF: 3.432. Article.
 - Palomo JL, Arias F, Szerman N, Vega P, Basurte I, Mesías B. Dual disorders in individuals under treatment for both alcohol and cocaine: Madrid study on the prevalence of dual disorders. *Salud Mental*. 2017;40:257-64. IF: 0.351. Article.
 - Puig O, Baeza I, de la Serna E, Cabrera B, Mezquida G, Bioque M, Lobo A, González-Pinto A, Parellada M, Corripio I, Vieta E, Bobes J, Usall J, Contreras F, Cuesta MJ, Bernardo M, Castro-Fornieles J; PEPs Group. Persistent Negative Symptoms in First-Episode Psychosis: Early Cognitive and Social Functioning Correlates and Differences Between Early and Adult Onset. *Journal of Clinical Psychiatry*. 2017;78:1414-22. IF: 5.291. Article.
 - Fraguas D, Díaz-Caneja CM, Corripio I, González-Pinto A, Lobo A, Bioque M, Cuesta MJ, Sanjuán J, Rodríguez-Toscano E, Arias B, Sarró S, Cabrera B, Bulbena A, Vieta E, Castro-Fornieles J, Arango C, Bernardo M, Parellada M; PEPs group. Gene-environment interaction as a predictor of early adjustment in first episode psychosis. *Schizophrenia Research*. 2017;189:196-203. IF: 3.986. Article.
 - Mezquida G, Cabrera B, Bioque M, Amoretti S, Lobo A, González-Pinto A, Espliego A, Corripio I, Vieta E, Castro-Fornieles J, Bergé D, Escartí MJ, Ibañez Á, Penadés R, Sánchez-Torres AM, Bernardo M; PEPs Group. The course of negative symptoms in first-episode schizophrenia and its predictors: A prospective two-year follow-up study. *Schizophrenia Research*. 2017;189:84-90. IF: 3.986. Article.
 - Bernardo M, Bioque M, Cabrera B, Lobo A, González-Pinto A, Pina L, Corripio I, Sanjuán J, Mané A, Castro-Fornieles J, Vieta E, Arango C, Mezquida G, Gassó P, Parellada M, Saiz-Ruiz J, Cuesta MJ, Mas S; PEPs Group. Modelling gene-environment interaction in first episodes of psychosis. *Schizophrenia Research*. 2017;189:181-9. IF: 3.986. Article.
 - Fernández-Ballesteros R, Olmos R, Santacreu M, Bustillos A, Schettini R, Huici C, Rivera JM. Assessing aging stereotypes: Personal stereotypes, self-stereotypes and self-perception of aging. *Psicothema*. 2017;29:482-9. IF: 1.344. Article.
 - Morales-Muñoz I, Martínez-Gras I, Ponce G, de la Cruz J, Lora D, Rodríguez-Jiménez R, Jurado-Barba R, Navarrete F, García-Gutiérrez MS, Manzanares J, Rubio G. Psychological symptomatology and impaired prepulse inhibition of the startle reflex are associated with cannabis-induced psychosis. *Journal of Psychopharmacology*. 2017; 31:1035-45. IF: 4.179. Article.
 - Refaie R, Rushton P, McGovern P, Thompson D, Serrano-Pedraza I, Rankin KS, Reed M. The effect of operating lights on laminar flow an experimental study using neutrally buoyant helium bubbles. *Bone & Joint Journal*. 2017;99B:1061-6. IF: 2.953. Article.
 - Pérez V, Salavert A, Espadaler J, Tusón M, Saiz-Ruiz J, Sáez-Navarro C, Bobes J, Baca-García E, Vieta E, Olivares JM, Rodriguez-Jimenez R, Villagrán JM, Gascón J, Cañete-Crespillo J, Solé M, Saiz PA, Ibáñez Á, de Diego-Adeliño J; AB-GEN Collaborative Group, Menchón JM. Efficacy of prospective pharmacogenetic testing in the treatment of major depressive disorder: results of a randomized, double-blind clinical trial. *BMC Psychiatry*. 2017;17:250. IF: 2.613. Article.
 - Mas S, Gassó P, Torra M, Bioque M, Lobo A, González-Pinto A, Olmeda MS, Corripio I, Vieta E, Castro-Fornieles J, Rodriguez-Jimenez R, Bobes J, Usall J, Llerena A, Saiz-Ruiz J, Bernardo M, Lafuente A; PEPs Group. Intuitive pharmacogenetic dosing of risperidone according to CYP2D6 phenotype extrapolated from genotype in a cohort of first episode psychosis patients. *European Neuropsychopharmacology*. 2017;27:647-56. IF: 4.239. Article.
 - Barrigon M, Rico-Romano AM, Ruiz-Gomez M, Delgado-Gomez D, Barahona I, Baca-García E; MEmind Study Grp. Comparative study of pencil-and-paper and electronic formats of GHQ-12, WHO-5 and PHQ-9 questionnaires. *Revista de Psiquiatria y Salud Mental*. 2017;10:160-7. IF: 2.227. Article.
 - Vancleef K, Read JCA, Herbert W, Goodship N, Woodhouse M, Serrano-Pedraza I. Overestimation of stereo thresholds by the TNO stereotest is not due to global stereopsis. *Ophthalmic and Physiological Optics*. 2017;37:507-20. IF: 2.302. Article.
 - Fernandez-Ballesteros R, Olmos R, Santacreu M, Bustillos A, Molina MA. The role of perceived discrimination on active aging. *Archives of Gerontology and Geriatrics*. 2017; 71:14-20. IF: 2.086. Article.
 - Arias F, Szerman N, Vega P, Mesías B, Basurte I, Rentero D. Bipolar disorder and substance use disorders. Madrid study on the prevalence of dual disorders/pathology. *Adicciones*. 2017;29:186-94. IF: 2.077. Article.
 - Tarawneh G, Nityananda V, Rosner R, Errington S, Herbert W, Cumming BG, Read JCA, Serrano-Pedraza I. Invisible noise obscures visible signal in insect motion detection. *Scientific Reports*. 2017;7:3496. IF: 4.259. Article.
 - Blanco I, Serrano-Pedraza I, Vazquez C. Don't Look at My Teeth When I Smile: Teeth Visibility in Smiling Faces Affects Emotionality Ratings and Gaze Patterns. *Emotion*. 2017;17:640-7. IF: 3.251. Article.
 - Jurado-Barba R, Duque A, López-Trabada JR, Martínez-Gras I, García-Gutiérrez MS, Navarrete F, López-Muñoz F, Jiménez-Arriero MÁ, Ávila C, Manzanares J, Rubio G. The Modulation of the Startle Reflex as Predictor of Alcohol Use Disorders in a Sample of Heavy Drinkers: A 4-Year Follow-Up Study. *Alcoholism-Clinical and Experimental Research*. 2017;41:1212-9. IF: 2.716. Article.
 - España-Serrano L, Guerra Martín-Palanco N, Montero-Pedraza A, Pérez-Santamarina E, Vidal R, García-Consuegra I, Valdizán EM, Pazos A, Palomo T, Jiménez-Arriero MÁ, Guadaño-Ferraz A, Hoenicka J. The Addiction-Related Protein ANKK1 is Differentially Expressed During the Cell Cycle in Neural Precursors. *Cerebral Cortex*. 2017; 27:2809-19. IF: 6.559. Article.
 - Aparicio A, Santos JL, Jiménez-López E, Bagney A, Rodríguez-Jiménez R, Sánchez-Morla EM. Emotion processing and psychosocial functioning in euthymic bipolar disorder. *Acta Psychiatrica Scandinavica*. 2017; 135:339-50. IF: 6.790. Article.
 - Mané A, Bergé D, Penzol MJ, Parellada M, Bioque M, Lobo A, González-Pinto A, Corripio I, Cabrera B, Sánchez-Torres AM, Saiz-Ruiz J, Bernardo M; PEPs Group. Cannabis use, COMT, BDNF and age at first-episode psychosis. *Psychiatry Research*. 2017;250:38-43. IF: 2.528. Article.
 - Morales-Muñoz I, Jurado-Barba R, Fernández-Guinea S, Álvarez-Alonso MJ, Rodríguez-Jiménez R, Jiménez-Arriero MA, Rubio G. Cognitive impairments in patients with first episode psychosis: The relationship between neurophysiological and neuropsychological assessments. *Journal of Clinical Neuroscience*. 2017;36:80-7. IF: 1.557. Article.
 - Garcia-Marchena N, Araos P, Pavon FJ, Ponce G, Pedraz M, Serrano A, Arias F, Romero-Sanchiz P, Suarez J, Pastor A, de la Torre R, Torrens M, Rubio G, de Fonseca FR. Psychiatric comorbidity and plasma levels of 2-acyl-glycerols in outpatient treatment alcohol users. Analysis of gender differences. *Adicciones*. 2017;29:83-96. IF: 2.077. Article.
 - Nityananda V, Tarawneh G, Errington S, Serrano-Pedraza I, Read J. The optomotor response of the praying mantis is driven predominantly by the central visual field. *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology*. 2017;203:77-87. IF: 2.429. Article.

- Karanam S, Jorge-Botana G, Olmos R, van Oostendorp H. The role of domain knowledge in cognitive modeling of information search. *Information Retrieval Journal*. 2017;20:456-79. IF: 0.791. Article.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** M^a Verónica Romero Ferreiro
Title: Cognición social y procesamiento emocional en pacientes con esquizofrenia.
Director/s: Roberto Rodríguez Jiménez, Luis Aguado Aguilar
Date Defended: 23/06/2017
University: Universidad Complutense de Madrid

- Candidate:** Mónica Domínguez Tobar
Title: Calidad de Vida en Esquizofrenia.
Director/s: Roberto Rodríguez Jiménez, Tomás Palomo Álvarez, Alexandra Teófila Bagney Lifante
Date Defended: 07/07/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

- Prize for Excellence in Research in the category of Reference Researcher awarded to Eva M^a Sánchez Morla, psychiatrist from UHB de Psiquiatría, for her work "Prepulse inhibition in euthymic bipolar disorder patients in comparison with control subjects", otorgado por la Sociedad Española de Psiquiatría Biológica en el XX Congreso Nacional de Psiquiatría (Barcelona, 16-18 noviembre 2017).

NEURODEGENERATIVE DISEASES



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	MINECO	1
Noncompetitive	Various	9
TOTAL		13

- Title: Evolución clínica y radiológica del síndrome radiológico aislado.
Principal Investigator: Julián Benito León
Project No.: PI16/00451
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title: Inflamación periférica como factor de riesgo en la patología de la enfermedad de Alzheimer: nuevas herramientas diagnósticas y dianas terapéuticas.
Principal Investigator: Eva M^a 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: 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: Plataforma para el seguimiento de trastornos del movimiento: NETMD.
Principal Investigator: Julián Benito León
Project No.: RTC-2015-3967-1
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 02/12/2015
End date: 31/12/2017, extended to 30/04/2018
- Title: Cuidados y consejos al paciente con Esclerosis Múltiple.
Principal Investigator: David Andrés Pérez Martínez
Funding Body: Merck, S.L.U.
Start date: 01/06/2017
End date: 06/07/2020
- 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: 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 M^a 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: Julián 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 M^a 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: Estudio ICHRIS (improving characterization of radiologically isolated syndrome).
Principal Investigator: Julián Benito León
Funding Body: Fundación Investigación Biomédica Hospital 12 de Octubre
Start date: 27/10/2016
End date: 26/10/2019
- Title: Ayudas para el desarrollo de los proyectos que se desarrollan en el Área de la Unidad de Esclerosis Múltiple del Hospital Universitario 12 de Octubre.
Principal Investigator: Julián Benito León
Funding Body: Sanofi Aventis, S.A.
Start date: 29/01/2015
End date: 28/01/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	19	70.218
Reviews	2	3.092
Editorials	3	18.271
Total	24	91.581
Letters	3	8.690
Total	27	100.271

- Contador I, Fernández-Calvo B, Boycheva E, Rueda L, Bermejo-Pareja F. Normative Data of the Story and Six-Object Memory Recall Tests in Older Spanish Adults: NEDICES Population-Based Cohort. *Archives of Clinical Neuropsychology*. 2017;32:992-1000. IF: 2.044. Article.
- Labiano-Fontcuberta A, Benito-León J. Radiologically isolated syndrome should be treated with disease-modifying therapy. *Multiple Sclerosis Journal*. 2017; 23:1820-1. IF: 4.840. Article.
- Sánchez-Ferro Á, Benito-León J, Louis ED, Contador I, Hernández-Gallego J, Puertas-Martín V, Bermejo-Pareja F. Cognition in non-demented Parkinson's disease vs essential tremor: A population-based study. *Acta Neurologica Scandinavica*. 2017;136:393-400. IF: 3.087. Article.
- Benito-León J, Laurence M. The Role of Fungi in the Etiology of Multiple Sclerosis. *Frontiers in Neurology*. 2017;8:535. IF: 3.552. Article.
- Serrano JL, Lambrecht S, del Castillo MD, Romero JP, Benito-León J, Rocon E. Identification of activities of daily living in tremorous patients using inertial sensors. *Expert Systems with Applications*. 2017;83:40-8. IF: 3.928. Article.
- Ludtmann MHR, Arber C, Bartolome F, de Vicente M, Preza E, Carro E, Houlden H, Gandhi S, Wray S, Abramov AY. Mutations in valosin-containing protein (VCP) decrease ADP/ATP translocation across the mitochondrial membrane and impair energy metabolism in human neurons. *Journal of Biological Chemistry*. 2017;292:8907-17. IF: 4.125. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- 
- Serrano JI, Romero JP, Castillo MDD, Rocon E, Louis ED, Benito-León J. A data mining approach using cortical thickness for diagnosis and characterization of essential tremor. *Scientific Reports*. 2017;7:2190. IF: 4.259. Article.
 - Bartolome F, Esteras N, Martin-Requero A, Boutoleau-Bretonniere C, Vercelletto M, Gabelle A, Le Ber I, Honda T, Dinkova-Kostova AT, Hardy J, Carro E, Abramov AY. Pathogenic p62/SQSTM1 mutations impair energy metabolism through limitation of mitochondrial substrates. *Scientific Reports*. 2017;7:1666. IF: 4.259. Article.
 - Agúndez JAG, García-Martín E, Alonso-Navarro H, Ayuso P, Esguevillas G, Benito-León J, Ortega-Cubero S, Pastor P, López-Alburquerque T, Jiménez-Jiménez FJ. Delta-amino-levulinic acid dehydratase gene and essential tremor. *European Journal of Clinical Investigation*. 2017;47:348-56. IF: 2.714. Article.
 - Dideriksen JL, Laine CM, Dosen S, Muceli S, Rocon E, Pons JL, Benito-León J, Farina D. Electrical Stimulation of Afferent Pathways for the Suppression of Pathological Tremor. *Frontiers in Neuroscience*. 2017;11: 178. IF: 3.566. Article.
 - Contador I, Del Ser T, Llamas S, Villarejo A, Benito-León J, Bermejo-Pareja F. Impact of literacy and years of education on the diagnosis of dementia: A population-based study. *Journal of Clinical and Experimental Neuropsychology*. 2017;39:112-9. IF: 1.839. Article.
 - Bartolome F, Antequera D, Tavares E, Pascual C, Maldonado R, Camins A, Carro E. Obesity and neuroinflammatory phenotype in mice lacking endothelial megalin. *Journal of Neuroinflammation*. 2017;14:26. IF: 5.102. Article.
 - Villarejo-Galende A, Llamas-Velasco S, Gómez-Grande A, Puertas-Martín V, Contador I, Sarandeses P, González-Sánchez M, Trincado R, Pilkington P, Ruiz-Solis S, Pérez-Martínez DA, Herrero-San Martín A. Amyloid pet in primary progressive aphasia: case series and systematic review of the literature. *Journal of Neurology*. 2017;264:121-30. IF: 3.389. Article.
 - Sardinero-García C, Santiago-Sáez A, Bravo-Llatas MD, Perea-Pérez B, Albarrán-Juan ME, Labajo-González E, Benito-León J. Liability for loss of chance in neurological conditions in the Spanish public healthcare system. *Gaceta Sanitaria*. 2017;31:30-3. IF: 1.768. Article.
 - Contador I, Stern Y, Bermejo-Pareja F, Sanchez-Ferro A, Benito-León J. Is Educational Attainment Associated with Increased Risk of Mortality in People with Dementia? A Population-based Study. *Current Alzheimer Research*. 2017;14:571-6. IF: 2.952. Article.
 - Brzan PP, Gallego JA, Romero JP, Glaser V, Rocon E, Benito-León J, Bermejo-Pareja F, Posada IJ, Holobar A. New Perspectives for Computer-Aided Discrimination of Parkinson's Disease and Essential Tremor. *Complexity*. 2017;4327175. IF: 4.621. Article.
 - Aguera-Ortiz LF, Lopez-Alvarez J, Del Nido-Varo L, Soria Garcia-Rosel E, Perez-Martinez DA, Ismail Z. Mild behavioural impairment as an antecedent of dementia: presentation of the diagnostic criteria and the Spanish version of the MBI-C scale for its evaluation. *Revista de Neurologia*. 2017;65:327-34. IF: 0.743. Review.
 - Laurence M, Benito-León J. Epstein-Barr virus and multiple sclerosis: Updating Pender's hypothesis. *Multiple Sclerosis and Related Disorders*. 2017;16: 8-14. IF: 2.349. Review.
 - De Pablo-Fernandez E, Sierra-Hidalgo F, Benito-León J, Bermejo-Pareja F. Association between Parkinson's disease and diabetes: Data from NEDICES study. *Acta Neurologica Scandinavica*. 2017;136:732-6. IF: 3.087. Editorial Material.
 - Garzo-Caldas N, Ruiz-Sainz E, Vila-Bedmar S, Llamas-Velasco S, Hernández-Lain A, Ruiz-Morales J, Folgueira-López D, Villarejo-Galende A. Enteroviral T-Cell Encephalitis Related to Immunosuppressive Therapy Including Rituximab. *Neurology*. 2017;89:408-9. IF: 7.592. Editorial Material.
 - Benito-León J. Viral hepatitis and the risk of Parkinson disease. *Neurology*. 2017;88:1596-7. IF: 7.592. Editorial Material.
 - Barragán-Martínez D, Simarro-Díaz A, Calleja-Castaño P, Hernández-Laín A, Ramos-González A, Villarejo-Galende A. Delayed Tacrolimus Leukoencephalopathy, a Rare And Reversible Cause of Dementia. *Neurology-Neuroimmunology & Neuroinflammation*. 2017;7;4:e319. IF: N/A. Editorial Material.
 - Benito-León J, Domingo-Santos Á. Comments on "Role of intestinal microbiota in the development of multiple sclerosis". *Neurologia*. 2017;32:477-8. IF: 2.103. Letter.
 - López-Blanco R, Posada Rodríguez IJ, Benito-León J. Learning disability in a son and premature ovarian failure as clinical pointers to identify a premutation on the X chromosome in a female with long-standing tremor. *Parkinsonism & Related Disorders*. 2017;42:107-8. IF: 4.484. Letter.
 - León Ruiz M, Benito-León J, García-Soldevilla MA, Rubio-Pérez L, Parra Santiago A, Lozano García-Caro LA, Izquierdo Esteban L, Hernández Martínez AC, González Estecha A, García-Albea Ristol E. Innovative and effective immunosuppressive bitherapy for an unusual paraneoplastic opsoclonus-myoclonus-ataxia syndrome of the adult. *Neurologia*. 2017;32:122-5. IF: 2.103. 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^a 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%).
EP National PCT 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^a 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^a 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^a Hernández Martín, Gorka Orive Arroyo, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva M^a Carro Díaz y 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^a Hernández

Martín, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva M^a Carro Díaz y 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^a 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

TRANSLATIONAL PSYCHIATRY

RESEARCH
GROUP MEMBERS

GROUP DIRECTORS

Leza Cerro, Juan Carlos
Agüera Ortiz, Luis Fernando

Angora Cañego, Ricardo
Cabia Díez, Mercedes
Caso Fernández, Javier
Castillo García, Isabel M^a
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:** 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

- Title:** Déficit noradrenérgico en enfermedad de Alzheimer. Estudio de su efecto sobre la quimioquina 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:** Inflammatory alterations in mental diseases: the role of Nrf2 and inflammasome pathways.

Principal Investigator: Javier Caso Fernández

Funding Body: ISCIII-Proyectos Intramurales Traslacionales CIBERSAM

Start date: 07/09/2015

End date: 31/12/2017

- Title: 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 IF (JCR 2016)
Articles	13	44.367
Reviews	4	17.914
Total	17	62.281

- Olazarán J, Agüera-Ortiz L, Argimón JM, Reed C, Ciudad A, Andrade P, Dilla T. Costs and quality of life in community-dwelling patients with Alzheimer's disease in Spain: results from the GERAS II observational study. *International Psychogeriatrics*. 2017;29:2081-93. IF: 2.423. Article.
- Baón-Pérez BS, Álvarez-Marrodán I, Navío-Acosta M, Verdura-Vizcaíno EJ, Ventura-Faci T. Spanish Validation of the MacArthur Competence Assessment Tool for Clinical Research Interview for Assessing Patients' Mental Capacity to Consent to Clinical Research. *Journal of Empirical Research on Human Research Ethics*. 2017; 12:343-51. IF: 1.352. Article.
- Vargas-Caraveo A, Sayd A, Maus SR, Caso JR, Madrigal JLM, García-Bueno B, Leza JC. Lipopolysaccharide enters the rat brain by a lipoprotein-mediated transport mechanism in physiological conditions. *Scientific Reports*. 2017;7:13113. IF: 4.259. Article.
- MacDowell KS, Pinacho R, Leza JC, Costa J, Ramos B, García-Bueno B. Differential regulation of the TLR4 signalling pathway in post-mortem prefrontal cortex and cerebellum in chronic schizophrenia: Relationship with SP transcription factors. *Progress in Neuropsychopharmacology & Biological Psychiatry*. 2017; 79:481-92. IF: 4.187. Article.
- MacDowell KS, Sayd A, García-Bueno B, Caso JR, Madrigal JL, Leza JC. Effects of the antipsychotic paliperidone on stress-induced changes in the endocannabinoid system in rat prefrontal cortex. *World Journal of Biological Psychiatry*. 2017;18:457-70. IF: 3.658. Article.
- Agüera-Ortiz L, Hernandez-Tamames JA, Martínez-Martin P, Cruz-Orduña I, Pajares G, López-Alvarez J, Osorio RS, Sanz M, Olazarán J. Structural correlates of apathy in Alzheimer's disease: a multimodal MRI study. *International Journal of Geriatric Psychiatry*. 2017;32:922-30. IF: 3.018. Article.

- Barrigón M, Rico-Romano AM, Ruiz-Gómez M, Delgado-Gómez D, Barahona I, Baca-García E; MEmind Study Grp. Comparative study of pencil-and-paper and electronic formats of GHQ-12, WHO-5 and PHQ-9 questionnaires. *Revista de Psiquiatria y Salud Mental*. 2017;10:160-7. IF: 2.227. Article.
- Antón M, Alén F, Gómez de Heras R, Serrano A, Pavón FJ, Leza JC, García-Bueno B, Rodríguez de Fonseca F, Orio L. Oleylethanolamide prevents neuroimmune HMGB1/TLR4/NF-κB danger signaling in rat frontal cortex and depressive-like behavior induced by ethanol binge administration. *Addiction Biology*. 2017;22:724-41. IF: 4.603. Article.
- Herrera S, Montorio I, Cabrera I. Effect of anxiety on memory for emotional information in older adults. *Aging & Mental Health*. 2017;21:362-8. IF: 2.658. Article.
- Sanz-Fuentenebro J, Vera I, Verdura E, Urretavizcaya M, Martínez-Amorós E, Soria V, Bernardo M. Pattern of electroconvulsive therapy use in Spain: Proposals for an optimal practice and equitable access. *Revista de Psiquiatria y Salud Mental*. 2017;10:87-95. IF: 2.227. Article.
- MacDowell KS, Munarriz-Cueva E, Caso JR, Madrigal JL, Zabala A, Meana JJ, García-Bueno B, Leza JC. Paliperidone reverts Toll-like receptor 3 signaling pathway activation and cognitive deficits in a maternal immune activation mouse model of schizophrenia. *Neuropharmacology*. 2017;116:196-207. IF: 5.012. Article.
- Madrigal JL, Caso JR, García-Bueno B, Gutiérrez IL, Leza JC. Noradrenaline induces CX3CL1 production and release by neurons. *Neuropharmacology*. 2017;114:146-55. IF: 5.012. Article.
- Lanctôt KL, Agüera-Ortiz L, Brodaty H, Francis PT, Geda YE, Ismail Z, Marshall GA, Mortby ME, Onyike CU, Padala PR, Politis AM, Rosenberg PB, Siegel E, Sultzer DL, Abraham EH. Apathy associated with neurocognitive disorders: Recent progress and future directions. *Alzheimers & Dementia*. 2017;13:84-100. IF: 9.478. Review.
- Herrera S, Montorio I, Cabrera I, Botella J. Memory bias for threatening information related to anxiety: an updated meta-analytic review. *Journal of Cognitive Psychology*. 2017;29:832-54. IF: 1.503. Review.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED IN THIS GROUP

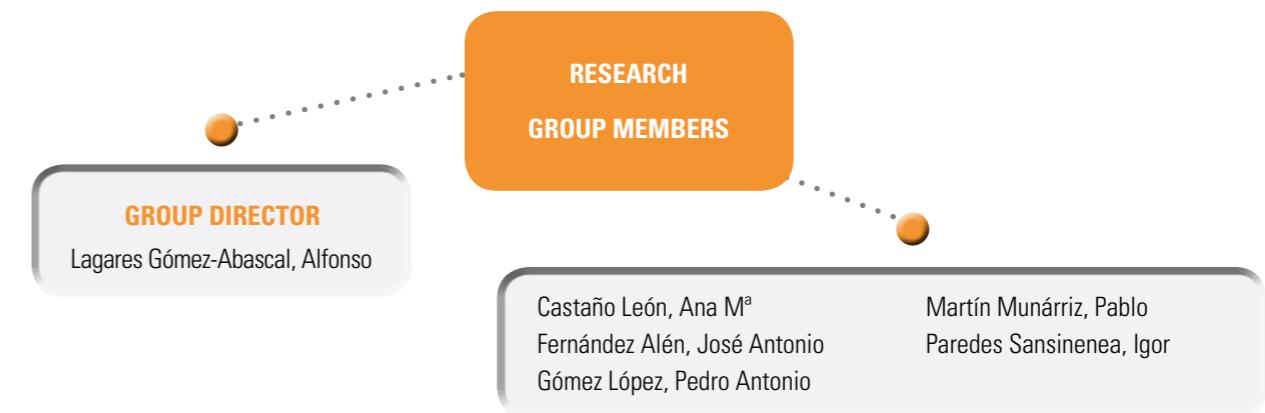
- Candidate:** David Martín Hernández
Title: Origen y Consecuencias de la Inflamación en Depresión.
Director/s: Juan Carlos Leza Cerro, Javier Rubén Caso Fernández
Date Defended: 06/06/2017
University: Universidad Complutense de Madrid
- Candidate:** Ignacio Marín Jiménez
Title: Efecto del sistema cannabinoides endógeno sobre la función de barrera intestinal.
Director/s: Juan Carlos Leza Cerro, Luis Menchén Viso
Date Defended: 07/09/2017
University: Universidad Complutense de Madrid
- Candidate:** Isabel Mª Castillo García
Title: Correlatos clínicos y morfológicos de la evolución de los síntomas neuropsiquiátricos en la demencia moderada y grave.

- Director/s:** Luis Fernando Agüera Ortiz
Date Defended: 06/07/2017
University: Universidad Complutense de Madrid
- Candidate:** Ignacio Marín Jiménez
Title: Efecto del sistema cannabinoides endógeno sobre la función de barrera intestinal.
Director/s: Juan Carlos Leza Cerro, Luis Menchén Viso
Date Defended: 07/09/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

- VII Concurso de divulgación científica de la UCM. First prize in photography to José Luis Muñoz Madrigal. 03 Febrero 2017
- Extraordinary Doctorate Prize 2016-2017 to Karina Soledad MacDowell Mata. "Estudio del papel inmunomodulador de los antipsicóticos atípicos risperidona/paliperidona"

NEUROTRAUMATOLOGY AND SUBARACHNOID HEMORRHAGE

**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	Fundación MAPFRE	1
TOTAL		3

- Title: Efectos neurocognitivos de la craneoplastia: cambios en la hemo e hidrodinámica cerebral. Efectos de una profilaxis antibiótica dirigida sobre la tasa de infección.
Principal Investigator: José Antonio Fernández Alén
Project No.: PI16/01939
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- 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
- Title: Valor de nuevos marcadores pronósticos en el traumatismo craneoencefálico: volumetría en TC, RM craneal y técnicas avanzadas (difusión y tractografía) y marcadores biológicos.

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	10	21.483
Reviews	3	5.243
Total	13	26.726
Letters	1	2.592
Total	14	29.318

- Cicuendez M, Castaño-León A, Ramos A, Hilario A, Gómez PA, Lagares A. Magnetic resonance in traumatic brain injury: A comparative study of the different conventional magnetic resonance imaging sequences and their diagnostic value in diffuse axonal injury. *Neurocirugia*. 2017;28:266-75. IF: 0.548. Article.
- Arikán Abelló F, Ley Urzaiz L, Fernández Alén J, Martín Láez R; Grupo de Trabajo de Patología Vascular de la Sociedad Española de Neurocirugía. Antithrombotic treatment consensus protocol (anticoagulation and antiplatelet therapy) during the perioperative and periprocedural period in neurosurgery. *Neurocirugia*. 2017;28:284-93. IF: 0.548. Article.
- Martínez-Pérez R, Cepeda S, Paredes I, Alen JF, Lagares A. MRI Prognostication Factors in the Setting of Cervical Spinal Cord Injury Secondary to Trauma. *World Neurosurgery*. 2017;101:623-32. IF: 2.592. Article.
- Martínez-Pérez R, Paredes I, Munarriz PM, Paredes B, Alén JF. Chronic traumatic encephalopathy: The unknown disease. *Neurologia*. 2017;32:185-91. IF: 2.103. Article.
- Medina-Rodríguez EM, Bribián A, Boyd A, Palomo V, Pastor J, Lagares A, Gil C, Martínez A, Williams A, de Castro F. Promoting *in vivo* remyelination with small molecules: a neuroreparative pharmacological treatment for Multiple Sclerosis. *Scientific Reports*. 2017;7:43545. IF: 4.259. Article.
- Martínez-Pérez R, Munarriz PM, Paredes I, Cotrina J, Lagares A. Cervical Spinal Cord Injury without Computed Tomography Evidence of Trauma in Adults: Magnetic Resonance Imaging Prognostic Factors. *World Neurosurgery*. 2017;99:192-9. IF: 2.592. Article.
- Hilario A, Sepulveda JM, Hernandez-Lain A, Salvador E, Koren L, Manneh R, Ruano Y, Perez-Nuñez A, Lagares A, Ramos A. Leakage decrease detected by dynamic susceptibility-weighted contrast-enhanced perfusion MRI predicts survival in recurrent glioblastoma treated with bevacizumab. *Clinical & Translational Oncology*. 2017;19:51-7. IF: 2.353. Article.
- Paredes I, Orduña J, Fustero D, Salgado JA, de Diego JM, de Mesa FG. Endoscopic temporal ventriculocisternostomy for the management of temporal horn entrapment: report of 4 cases. *Journal of Neurosurgery*. 2017;126:298-303. IF: 4.059. Article.
- Cicuendez M, Castaño-León A, Ramos A, Hilario A, Gómez PA, Lagares A. Prognostic value of corpus callosum injuries in severe head trauma. *Acta Neurochirurgica*. 2017;159:25-32. IF: 1.881. Article.

- Gómez PA, Castaño-León AM, Lora D, Cepeda S, Lagares A. Trends in computed tomography characteristics, intracranial pressure monitoring and surgical management in severe traumatic brain injury: Analysis of a data base of the past 25 years in a neurosurgery department. *Neurocirugia*. 2017;28:1-14. IF: 0.548. Article.
- Fortea F, Masjuan J, Arikán-Abello F, Rovira A, González A, Arenillas J, Fernández Alen J, Gállego J. Criteria for training and accreditation in Interventional Neuroradiology-Neurointervention, approved by the Spanish Group of Interventional Neuroradiology (GENT), the Spanish Society of Neuroradiology (SENR), the Spanish Group of Cerebrovascular Diseases (GEECV), the Spanish Society of Neurology (SEN), and the vascular disease specialists in the Spanish Society of Neurosurgery (SENEC). Requirements for accreditation in Interventional Neuroradiology-Neurointervention for institutions and specialists. *Neurologia*. 2017;32:106-112. IF: 2.103. Review.
- Álvarez Salgado JA, González-Llanos Fernández de Mesa F, Villaseñor Ledezma JJ, Cañizares Méndez ML, Paredes Sansinenea I, Rodríguez de Lope-Llorca A, Mollejo Villanueva M. Ectopic craniopharyngioma and Gardner's syndrome: Case report and literature review. *Neurocirugia*. 2017;28:97-101. IF: 0.548. Review.
- Panero I, Eiriz C, Lagares A, Toldos O, Panero A, Paredes I. Intradural-Extramedullary Capillary Hemangioma with Acute Bleeding: Case Report and Literature Review. *World Neurosurgery*. 2017;108:988.e7-988.e14. IF: 2.592. Review.
- Martínez-Pérez R, Paredes I, Lagares A. Reply To "Spinal Cord Injury Without Radiographic Abnormality In Adults". *World Neurosurgery*. 2017;101:799-800. IF: 2.592. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Rafael Martínez Pérez
Title: Valor Pronóstico de la resonancia magnética en el trauma cervical.
Director/s: Alfonso Lagares Gómez-Abascal
Date Defended: 08/09/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

- XII Premio Dr. Pedro Mata (2017), awarded by Junta Directiva de SONCAM, for the study entitled: Valor pronóstico de la resonancia magnética precoz en el trauma cervical. Authors: Rafael Martínez Pérez, Igor Paredes Sansinenea, José Antonio Fernández Alén, Alfonso Lagares Gómez-Abascal.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

ADDICTIONS AND COMORBIDITY



- 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 31/12/2017

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

- 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: M^a Isabel Colado Megía, M^a Esther O'Shea Gaya
Project No.: SAF2016-78864-R
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/02/2017
End date: 31/12/2019
- 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: M^a Isabel Colado Megía
Funding Body: Ministerio de Sanidad, Servicios Sociales e Igualdad. Plan Nacional sobre Drogas
Start date: 01/02/2015
End date: 31/01/2018

ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	MSSSI	1
Noncompetitive	Various	2
TOTAL		4

- 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
Funding Body: Otsuka Pharmaceutical, S.A.
Start date: 17/12/2014
End date: 16/12/2016, extended to 31/01/2017
- 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: Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)
Start date: 01/01/2016
End date: 30/11/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	21	63.639
Reviews	2	5.241
Total	23	68.880

- Pilar-Cuéllar F, Vidal R, Díaz Á, Garro-Martínez E, Linge R, Castro E, Haberzettl R, Fink H, Bert B, Brosda J, Romero B, Crespo-Facorro B, Pazos Á. Enhanced Stress Response in 5-HT1AR Overexpressing Mice: Altered HPA Function and Hippocampal Long-Term Potentiation. *Acs Chemical Neuroscience.* 2017;8:2393-401. IF: 3.883. Article.
- García-Marchena N, Silva-Peña D, Martín-Velasco AI, Villanúa MÁ, Araos P, Pedraz M, Maza-Quiroga R, Romero-Sanchiz P, Rubio G, Castilla-Ortega E, Suárez J, Rodríguez de Fonseca F, Serrano A, Pavón FJ. Decreased plasma concentrations of BDNF and IGF-1 in abstinent patients with alcohol use disorders. *PLoS One.* 2017;12(11):e0187634. IF: 2.806. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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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- López-Muñoz F, De Berardis D, Fornaro M, Vellante F, di Giannantonio M, Povedano-Montero FJ, Póveda Fernández-Martín M, Rubio G, Álamo C. A bibliometric analysis of scientific production on atypical antipsychotic drugs from Italy. *Rivista di Psichiatria*. 2017;52:236-46. IF: 0.642. Article.
 - Penalver A, Campos-Sandoval JA, Blanco E, Cardona C, Castilla L, Martin-Rufian M, Estivill-Torrus G, Sanchez-Varo R, Alonso FJ, Perez-Hernandez M, Colado MI, Gutierrez A, de Fonseca FR, Marquez J. Glutaminase and MMP-9 Downregulation in Cortex and Hippocampus of LPA(1) Receptor Null Mice Correlate with Altered Dendritic Spine Plasticity. *Frontiers in Molecular Neuroscience*. 2017;10:278. IF: 5.076. Article.
 - Garcia-Marchena N, Pavon FJ, Pastor A, Araos P, Pedraz M, Romero-Sanchiz P, Calado M, Suarez J, Castilla-Ortega E, Orio L, Boronat A, Torrens M, Rubio G, de la Torre R, Rodriguez deFonseca F, Serrano A. Plasma concentrations of oleylethanolamide and other acylethanolamides are altered in alcohol-dependent patients: effect of length of abstinence. *Addiction Biology*. 2017;22:1366-77. IF: 4.603. Article.
 - Jurado-Barba R, Martínez A, Sion A, Álvarez-Alonso MJ, Robles A, Quinto-Guillen R, Rubio G. Development of a screening test for cognitive impairment in alcoholic population: TEDCA. *Actas Espanolas de Psiquiatria*. 2017; 45:201-17. IF: 1.339. Article.
 - de-Sola J, Talledo H, Rodríguez de Fonseca F, Rubio G. Prevalence of problematic cell phone use in an adult population in Spain as assessed by the Mobile Phone Problem Use Scale (MPPUS). *PLoS One*. 2017; 12(8):e0181184. IF: 2.806. Article.
 - Morales-Muñoz I, Martínez-Gras I, Ponce G, de la Cruz J, Lora D, Rodríguez-Jiménez R, Jurado-Barba R, Navarrete F, García-Gutiérrez MS, Manzanares J, Rubio G. Psychological symptomatology and impaired prepulse inhibition of the startle reflex are associated with cannabis-induced psychosis. *Journal of Psychopharmacology*. 2017; 31:1035-45. IF: 4.179. Article.
 - Rubio-Araiz A, Porcu F, Pérez-Hernández M, García-Gutiérrez MS, Aracil-Fernández MA, Gutierrez-López MD, Guerri C, Manzanares J, O'Shea E, Colado MI. Disruption of blood-brain barrier integrity in postmortem alcoholic brain: preclinical evidence of TLR4 involvement from a binge-like drinking model. *Addiction Biology*. 2017; 22:1103-16. IF: 4.603. Article.
 - Jurado-Barba R, Duque A, López-Trabada JR, Martínez-Gras I, García-Gutiérrez MS, Navarrete F, López-Muñoz F, Jiménez-Arriero MÁ, Ávila C, Manzanares J, Rubio G. The Modulation of the Startle Reflex as Predictor of Alcohol Use Disorders in a Sample of Heavy Drinkers: A 4-Year Follow-Up Study. *Alcoholism-Clinical and Experimental Research*. 2017;41:1212-9. IF: 2.716. Article.
 - Wang L, Moraleda I, Iriepa I, Romero A, Lopez-Munoz F, Chioua M, Inokuchi T, Bartolini M, Marco-Contelles J. 5-Methyl-N-(8-(5,6,7,8-tetrahydroacridin-9-ylamino) octyl)-5H-indolo[2,3-b] quinolin-11-amine: a highly potent human cholinesterase inhibitor. *MedChemComm*. 2017;8:1307-17. IF: 2.608. Article.
 - Pérez-Hernández M, Fernández-Valle ME, Rubio-Araiz A, Vidal R, Gutiérrez-López MD, O'Shea E, Colado MI. 3,4-Methylenedioxymethamphetamine (MDMA, ecstasy) produces edema due to BBB disruption induced by MMP-9 activation in rat hippocampus. *Neuropharmacology*. 2017; 118:157-66. IF: 5.012. Article.
 - Cuerda-Galindo E, López-Muñoz F, Krischel M, Ley A. Study of deaths by suicide of homosexual prisoners in Nazi Sachsenhausen concentration camp. *PLoS One*. 2017;12(4):e0176007. IF: 2.806. Article.
 - López-Muñoz F, Cuerda-Galindo E, Krischel M. Study of Deaths by Suicide in the Soviet Special Camp Number 7 (Sachsenhausen), 1945-1950. *Psychiatric Quarterly*. 2017; 88:93-101. IF: 1.449. Article.
 - Antón-Pacheco JL, Usategui A, Martínez I, García-Herrero CM, Gamez AP, Grau M, Martínez AM, Rodríguez-Peralto JL, Pablos JL. TGF-beta Antagonist Attenuates Fibrosis But Not Luminal Narrowing in Experimental Tracheal Stenosis. *Laryngoscope*. 2017;127:561-7. IF: 2.471. Article.
 - De-Sola J, Talledo H, Rubio G, de Fonseca FR. Psychological Factors and Alcohol Use in Problematic Mobile Phone Use in the Spanish Population. *Frontiers in psychiatry*. 2017;8:11. IF: 3.532. Article.
 - Morales-Muñoz I, Jurado-Barba R, Fernández-Guinea S, Álvarez-Alonso MJ, Rodríguez-Jiménez R, Jiménez-Arriero MA, Rubio G. Cognitive impairments in patients with first episode psychosis: The relationship between neurophysiological and neuropsychological assessments. *Journal of Clinical Neuroscience*. 2017;36:80-7. IF: 1.557. Article.
 - 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*. 2017; 7:214. IF: 3.532. Article.
 - Rodríguez-Arias M, Montagud-Romero S, Rubio-Araiz A, Aguilar MA, Martín-García E, Cabrera R, Maldonado R, Porcu F, Colado MI, Miñarro J. Effects of repeated social defeat on adolescent mice on cocaine-induced CPP and self-administration in adulthood: integrity of the blood-brain barrier. *Addiction Biology*. 2017;22:129-41. IF: 4.603. Article.
 - Redondo M, Leon L, Povedano FJ, Abasolo L, Perez-Nieto MA, Lopez-Munoz F. A bibliometric study of the scientific publications on patient-reported outcomes in rheumatology. *Seminars in Arthritis and Rheumatism*. 2017;46:828-33. IF: 4.498. Review.
 - Sion A, Jurado-Barba R, Alonso MJ, Rubio-Valladolid G. Inhibitory capacity assessment in alcohol dependent patients: translation from a modified stop signal task. *Actas Espanolas de Psiquiatria*. 2017;45:21-31. IF: 1.339. Article.
 - García-Marchena N, Araos P, Pavon FJ, Ponce G, Pedraz M, Serrano A, Arias F, Romero-Sanchiz P, Suarez J, Pastor A, de la Torre R, Torrens M, Rubio G, de Fonseca FR. Psychiatric comorbidity and plasma levels of 2-acylglycerols in outpatient treatment alcohol users. *Analysis of gender differences. Adicciones*. 2017;29:83-96. IF: 2.077. Article.
 - Salado-Font SM, López-Muñoz F, Povedano-Montero FJ, Labella Quesada F. Bibliometric analysis of the scientific production as regards statin use for ophthalmological symptoms of myasthenia gravis. *Archivos de la Sociedad Espanola de Oftalmologia*. 2017;92:464-71. IF: N/A. Article.
 - Romero-Guzman GJ, Lopez-Munoz F. Prevalence and risk factors for periventricular leukomalacia in preterm infants. A systematic review. *Revista de Neurologia*. 2017;65:57-62. IF: 0.743. Review.

NEUROVASCULAR



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	MINECO	1
TOTAL		1

- 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, Mª Ángeles Moro Sánchez
Project No.: RTC2015-3741-1
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/03/2015
End date: 31/12/2017
- 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

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	5	25.093
Total	5	25.093

- Palma-Tortosa S, García-Culebras A, Moraga A, Hurtado O, Pérez-Ruiz A, Durán-Laforet V, Parra J, Cuartero MI, Pradillo JM, Moro MA, Lizasoain I. Specific Features of SVZ Neurogenesis After Cortical Ischemia: a Longitudinal Study. *Scientific Reports*. 2017;7:16343. IF: 4.259. Article.
- García-Culebras A, Palma-Tortosa S, Moraga A, García-Yébenes I, Durán-Laforet V, Cuartero MI, de la Parra J, Barrios-Muñoz AL, Díaz-Guzmán J, Pradillo JM, Moro MA, Lizasoain I. Toll-Like Receptor 4 Mediates Hemorrhagic Transformation After Delayed Tissue Plasminogen Activator Administration in In Situ Thromboembolic Stroke. *Stroke*. 2017;48:1695-9. IF: 6.032. Article.
- Hernández-Jiménez M, Peña-Martínez C, Godino MDC, Díaz-Guzmán J, Moro MÁ, Lizasoain I. Test repositioning for functional assessment of neurological outcome after experimental stroke in mice. *PLoS One*. 2017; 12(5):e0176770. IF: 2.806. Article.
- Pradillo JM, Murray KN, Coutts GA, Moraga A, Oroz-Gonjar F, Boutin H, Moro MA, Lizasoain I, Rothwell NJ, Allan SM. Reparative effects of interleukin-1 receptor antagonist in young and aged/co-morbid rodents after cerebral ischemia. *Brain Behavior and Immunity*. 2017;61:117-26. IF: 5.964. Article.
- Bravo-Ferrer I, Cuartero MI, Zarruk JG, Pradillo JM, Hurtado O, Romera VG, Díaz-Alonso J, García-Segura JM, Guzmán M, Lizasoain I, Galve-Roperh I, Moro MA. Cannabinoid Type-2 Receptor Drives Neurogenesis and Improves Functional Outcome after Stroke. *Stroke*. 2017;48:204-12. IF: 6.032. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Alicia García Culebras
Title: Estudio del papel de TLR4 en la transformación hemorrágica e infiltración aguda tras ictus experimental.
- **Director/s:** Ignacio Lizasoain Hernández, M^a Ángeles Moro Sánchez, José Sánchez-Prieto Borja, Ana Moraga Yébenes
Date Defended: 16/06/2017
University: Universidad Complutense de Madrid

- **Candidate:** Sara Palma Tortosa
Title: Perfil temporal de la neurogénesis tras un ictus isquémico experimental. (Implicación de TLR4).
- **Director/s:** Ignacio Lizasoain Hernández, M^a Ángeles Moro Sánchez, Jesús Miguel Pradillo Justo
Date Defended: 23/06/2017
University: Universidad Complutense de Madrid

AREA 9**TRANSVERSAL AREA**

COORDINATOR: FRANCISCO JAVIER FERNÁNDEZ MARTÍNEZ

**Research on Physical Activity
and Health**

Regenerative Medicine

Medical Chemistry Laboratory

**Homeostasis and the Tissue Physiopathology
of the Stem Cells**

Research on Intelligent Biomaterials

Genetics and Inheritance

RESEARCH ON PHYSICAL ACTIVITY AND HEALTH

GROUP DIRECTOR

Lucía Mulas, Alejandro

RESEARCH GROUP MEMBERS

Brea Alejo, Lidia	Perales Santaella, María
Díez Bermejo, Jorge	Sanchís Gomar, Fabián
Fernández Moreno, David	Santalla Hernández, Alfredo
Garatachea Vallejo, Nuria	Santana Sosa, Elena
González Saiz, Laura	Santos Lozano, Alejandro
Pagola Aldazábal, Itziar	Sanz Ayán, Mª Paz

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: 01/01/2016
End date: 31/12/2018
- 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 IF (JCR 2016)
Articles	13	49.826
Reviews	7	35.907
Editorials	6	108.492
Total	26	194.225
Letters	4	45.561
Total	30	239.786

- Cedena MT, Rapado I, Santos-Lozano A, Ayala R, Onecha E, Abaigar M, Such E, Ramos F, Cervera J, Díez-Campelo M, Sanz G, Rivas JH, Lucía A, Martínez-López J. Mutations in the DNA methylation pathway and number of driver mutations predict response to azacitidine in myelodysplastic syndromes. *Oncotarget*. 2017;8:106948-61. IF: 5.168. Article.
- Santalla A, Nogales-Gadea G, Encinar AB, Vieitez I, González-Quintana A, Serrano-Lorenzo P, Consuegra IG, Asensio S, Ballester-Lopez A, Pintos-Morell G, Coll-Cantí J, Pareja-Galeano H, Díez-Bermejo J, Pérez M, Andreu AL, Pinós T, Arenas J, Martín MA, Lucia A. Genotypic and phenotypic features of all Spanish patients with McArdle disease: a 2016 update. *BMC Genomics*. 2017;18:819. IF: 3.729. Article.
- Fiuza-Luces C, Padilla JR, Valentín J, Santana-Sosa E, Santos-Lozano A, Sanchis-Gomar F, Pareja-Galeano H, Morales JS, Fleck SJ, Pérez M, Lassaletta A, Soares-Miranda L, Pérez-Martínez A, Lucia A. Effects of Exercise on the Immune Function of Pediatric Patients with Solid Tumors Insights from the PAPEC Randomized Trial. *American Journal of Physical Medicine & Rehabilitation*. 2017;96:831-7. IF: 1.734. Article.
- Santos L, Fernandez-Rio J, Winge K, Barragán-Pérez B, González-Gómez L, Rodríguez-Pérez V, González-Díez

V, Lucía A, Iglesias-Soler E, Dopico-Calvo X, Fernández-Del-Olmo M, Del-Valle M, Blanco-Traba M, Suman OE, Rodríguez-Gómez J. Effects of progressive resistance exercise in akinetic-rigid Parkinson's disease patients: a randomized controlled trial. *European Journal of Physical and Rehabilitation Medicine*. 2017;53:651-63. IF: 1.827. Article.

Willems SM, Wright DJ, Day FR, Trajanoska K, Joshi PK, Morris JA, Matteini AM, Garton FC, Grarup N, Oskolkov N, Thalamuthu A, Mangino M, Liu J, Demirkiran A, Lek M, Xu LW, Wang G, Oldmeadow C, Gaulton KJ, Lotta LA, Miyamoto-Mikami E, Rivas MA, White T, Loh PR, Aadahl M, Amin N, Attia JR, Austin K, Benyamin B, Brage S, Cheng YC, Cieszczyk P, Derave W, Eriksson KF, Eynon N, Linneberg A, Lucia A, Massidda M, Mitchell BD, Miyachi M, Murakami H, Padmanabhan S, Pandey A, Papadimitriou L, Rajpal DK, Sale C, Schnurr TM, Sessa F, Shrine N, Tobin MD, Varley I, Wain LV, Wray NR, Lindgren CM, MacArthur DG, Waterworth DM, McCarthy MI, Pedersen O, Khaw KT, Kie DP, Pitsiladis Y, Fuku N, Franks PW, North KN, van Duijn CM, Mather KA, Hansen T, Hansson O, Spector T, Murabito JM, Richards JB, Rivadeneira F, Langenberg C, Perry JRB, Wareham NJ, Scott RA; GEFOS Anytype Fracture Consortium. Large-scale GWAS identifies multiple loci for hand grip strength providing biological insights into muscular fitness. *Nature Communications*. 2017;8:16015. IF: 12.124. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Barakat R, Perales M, Cordero Y, Bacchi M, Mottola MF. Influence of Land or Water Exercise in Pregnancy on Outcomes: A Cross-sectional Study. *Medicine and Science in Sports and Exercise*. 2017;49:1397-403. IF: 4.141. Article.
- Henning F, Cunningham CA, Martín MA, Rubio JC, Arenas J, Lucia A, Hernández-Laín A, Kohn TA. Muscle Fiber Type Proportion and Size is not Altered in McArdle Disease. *Muscle & Nerve*. 2017;55:916-8. IF: 2.605. Article.
- Requena B, García I, Suárez-Arrones L, Sáez de Villarreal E, Orellana JN, Santalla A. Off-Season Effects on Functional Performance, Body Composition, and Blood Parameters in Top-Level Professional Soccer Players. *Journal of Strength and Conditioning Research*. 2017;31:939-46. IF: 2.060. Article.
- González-Saiz L, Fiúza-Luces C, Sanchis-Gomar F, Santos-Lozano A, Quezada-Loaiza CA, Flox-Camacho A, Munguía-Izquierdo D, Ara I, Santalla A, Morán M, Sanz-Ayan P, Escribano-Subías P, Lucia A. Benefits of skeletal-muscle exercise training in pulmonary arterial hypertension: The WHOLEi+12 trial. *International Journal of Cardiology*. 2017;231:277-83. IF: 6.189. Article.
- Sanchis-Gomar F, Alis R, Rampinini E, Bosio A, Romagnoli M, Lombardi G, Lippi G. Alpha-amylase serum levels in professional soccer players are not related with physical fitness. *Journal of Sports Medicine and Physical Fitness*. 2017;57:214-8. IF: 1.215. Article.
- Pareja-Galeano H, Santos-Lozano A, Sanchis-Gomar F, Fiúza-Luces C, Garatachea N, Gálvez BG, Lucia A, Emanuele E. Circulating leptin and adiponectin concentrations in healthy exceptional longevity. Mechanisms of Ageing and Development. 2017;162:129-32. IF: 3.087. Article.
- Fiúza-Luces C, Padilla JR, Soares-Miranda L, Santana-Sosa E, Quiroga JV, Santos-Lozano A, Pareja-Galeano H, Sanchis-Gomar F, Lorenzo-González R, Verde Z, López-Mojares LM, Lassaletta A, Fleck SJ, Pérez M, Pérez-Martínez A, Lucia A. Exercise Intervention in Pediatric Patients with Solid Tumors: The Physical Activity in Pediatric Cancer Trial. *Medicine and Science in Sports and Exercise*. 2017;49:223-30. IF: 4.141. Article.
- Santin-Medeiros F, Santos-Lozano A, Cristi-Montero C, Garatachea Vallejo N. Effect of 8months of whole-body vibration training on quality of life in elderly women. *Research in Sports Medicine*. 2017;25:101-7. IF: 1.806. Article.
- Forteza-Albertí JF, Sanchis-Gomar F, Lippi G, Cervellin G, Lucia A, Calderón-Montero FJ. Limits of ventricular function: from athlete's heart to a failing heart. *Clinical Physiology and Functional Imaging*. 2017;37:549-57. IF: 2.300. Review.
- Kim BY, Lee SH, Graham PL, Angelucci F, Lucia A, Pareja-Galeano H, Leyhe T, Turana Y, Lee IR, Yoon JH, Shin JL. Peripheral Brain-Derived Neurotrophic Factor Levels in Alzheimer's Disease and Mild Cognitive Impairment: a Comprehensive Systematic Review and Meta-analysis. *Molecular Neurobiology*. 2017;54:7297-311. IF: 6.190. Review.
- Aguirre-Camacho A, Stepanous J, Blanco-Donoso LM, Moreno-Jiménez B, Wilburn J, González-Saiz L, McKenna SP. Adaptation and Validation of the Cambridge Pulmonary Hypertension Outcome Review (CAMPHOR) for Use in Spain. *Revista Espanola de Cardiologia*. 2017;70:467-73. IF: 4.485. Review.
- Danese E, Lippi G, Sanchis-Gomar F, Brocco G, Rizzo M, Banach M, Montagnana M. Physical Exercise and DNA Injury: Good or Evil? *Advances in Clinical Chemistry*. 2017;81:193-230. IF: 4.722. Review.
- Lippi G, Sanchis-Gomar F, Cervellin G. Cardiac troponins and mortality in type 1 and 2 myocardial infarction. *Clinical Chemistry and Laboratory Medicine*. 2017;55:181-8. IF: 3.432. Review.
- Sanchis-Gomar F, Perez-Quilis C, Lippi G, Cervellin G, Leischik R, Löllgen H, Serrano-Ostáriz E, Lucia A. Atrial fibrillation in highly trained endurance athletes - Description of a syndrome. *International Journal of Cardiology*. 2017;226:11-20. IF: 6.189. Review.
- Buffart LM, Kalter J, Sweegers MG, Courneya KS, Newton RU, Aaronson NK, Jacobsen PB, May AM, Galvão DA, Chinapaw MJ, Steindorf K, Irwin ML, Stuiver MM, Hayes S, Griffith KA, Lucia A, Mesters I, van Weert E, Knoop H, Goedendorp MM, Mutrie N, Daley AJ, McConnachie A, Bohus M, Thorsen L, Schulz KH, Short CE, James EL, Plotnikoff RC, Arbane G, Schmidt ME, Potthoff K, van Beurden M, Oldenburg HS, Sonke GS, van Harten WH, Garrod R, Schmitz KH, Winters-Stone KM, Velthuis MJ, Taaffe DR, van Mechelen W, Kersten MJ, Nollet F, Wenzel J, Wiskemann J, Verdonck-de Leeuw IM, Brug J. Effects and moderators of exercise on quality of life and physical function in patients with cancer: An individual patient data meta-analysis of 34 RCTs. *Cancer Treatment Reviews*. 2017;52:91-104. IF: 8.589. Review.
- Ruiz-Casado A, Martin-Ruiz A, Perez LM, Provencio M, Fiúza-Luces C, Lucia A. Exercise and the Hallmarks of Cancer. *Trends in Cancer*. 2017;3:423-41. IF: N/A. Review.
- Eynon N, Voisin S, Lucia A, Wang G, Pitsiladis Y. Preface: genomics and biology of exercise is undergoing a paradigm shift. *BMC Genomics*. 2017;18:825. IF: 3.729. Editorial Material.
- Santos-Lozano A, Lucia A, Ruilope L, Pitsiladis YP. Born to run: our future depends on it. *Lancet*. 2017;390:635-6. IF: 47.831. Editorial Material.
- Ortuno-Costela MD, Rodriguez-Mancera N, Garcia-Lopez M, Zurita-Díaz F, Moreno-Izquierdo A, Lucia A, Martin MA, Garesse R, Gallardo, ME. Establishment of a human iPSC line (IISHDOi001-A) from a patient with; McArdle disease. *Stem Cell Research*. 2017;23:188-92. IF: 3.494. Editorial Material.
- Joyner MJ, Sanchis-Gomar F, Lucia A. Exercise medicine education should be expanded. *British Journal of Sports Medicine*. 2017;51:625-6. IF: 6.557. Editorial Material.
- Garatachea N, Santos-Lozano A, Hughes DC, Gómez-Cabello A, Ara I. Physical Exercise as an Effective Antiaging Intervention. *Biomed Research International*. 2017;7317609. IF: 2.476. Editorial Material.
- Perales M, Artal R, Lucia A. Exercise During Pregnancy. *JAMA*. 2017;317:1113-4. IF: 44.405. Editorial Material.
- Santos-Lozano A, Martín-Hernández J, Baladrón C, Turrado-Sevilla MÁ, Arrarás-Flores Á, Villacastín JP, Boraita A, Bueno H, Lucia A. Sudden Cardiac Death in Professional Soccer Players. *Journal of the American College of Cardiology*. 2017;70:1420-1. IF: 19.896. Letter.
- Santos-Lozano A, Pareja-Galeano H, Lucia A. Is Weekend-Only Physical Activity Enough to Compensate for a Sedentary Lifestyle? *JAMA Internal Medicine*. 2017;177:1223-4. IF: 16.538. Letter.
- Morales JS, Garatachea N, Pareja-Galeano H. Vitamin D for Healthy Aging. *Journal of the American Geriatrics Society*. 2017;65:1629-30. IF: 4.388. Letter.
- Nogales-Gadea G, Santalla A, Arenas J, Martín MA, Morán M, Lucia A. Low versus high carbohydrates in the diet of the world-class athlete: insights from McArdle's disease. *Journal of Physiology-London*. 2017;595:2991-2. IF: 4.739. Letter.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Laura González Saiz
Title: Beneficios de un programa de ejercicio físico intra-hospitalario en pacientes con hipertensión pulmonar.
- Director/s:** Alejandro Lucía Mulas, M^a del Carmen Fiuza Luces, M^a Paz Sanz Ayán
- Date Defended:** 20/07/2017
- University:** Universidad Europea

PRIZES AND AWARDS

- Second National Liberbank Prize for Sports Medicine for a study entitled: Beneficios de un innovador programa de ejercicio en enfermedades mitocondriales: el ejercicio es medicina.

REGENERATIVE MEDICINE**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	1
TOTAL		2

- 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
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018
- Title: Estudio del papel de la alfa sinucleína 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: 31/10/2017

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	Σ IF (JCR 2016)
Articles	2	10.173
Total	2	10.173

- Prieto LM, McPhee CF, Rojas P, Mazariegos D, Munoz E, Mellado MJ, Holguin A, Navarro ML, Gonzalez-Tome M, Ramos JT; Madrid Cohort HIV-Infected Mother. Pregnancy outcomes in perinatally HIV-infected young women in Madrid, Spain: 2000-2015. *PLoS One*. 2017;12(8):e0183558. IF: 2.806. Article.
- Paris JL, de la Torre P, Victoria Cabañas M, Manzano M, Grau M, Flores AI, Vallet-Regí M. Vectorization of ultrasound-responsive nanoparticles in placental mesenchymal stem cells for cancer therapy. *Nanoscale*. 2017;9:5528-37. IF: 7.367. Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MEDICAL CHEMISTRY LABORATORY



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

- Title: Nuevas dianas y estrategias terapéuticas.
Principal Investigator: Mª Luz López Rodríguez
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Project No.: SAF2013-48271-C02-01
Start date: 01/01/2014
End date: 31/12/2017
- Title: New isoprenylcysteine carboxylmethyltransferase (ICMT) inhibitors for the treatment of progeria.
Principal Investigator: Silvia Ortega Gutiérrez
Funding Body: Progeria Research Foundation, USA
Project No.: SAF2016-78792-R
Start date: 01/01/2017
End date: 31/12/2018
- Title: Nuevas estrategias terapéuticas dirigidas al desarrollo de tratamientos eficaces para enfermedades de alta incidencia.
Principal Investigator: Mª Luz López Rodríguez
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Project No.: SAF2016-78792-R
Start date: 01/01/2017
End date: 31/12/2017
- Title: Estudios analíticos por HPLC/MS de fármacos anti-tumorales.
Principal Investigator: Mª Luz López Rodríguez
Funding Body: Vivia Biotech
Project No.: SAF2016-78792-R
Start date: 01/01/2017
End date: 31/12/2017

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	7	39.918
Total	7	39.918

- García-Cárceles J, Decara JM, Vázquez-Villa H, Rodríguez R, Codesido E, Cruces J, Brea J, Loza MI, Alén F, Botta J, McCormick PJ, Ballesteros JA, Benjamú B, Rodríguez de Fonseca F, López-Rodríguez ML. A Positive Allosteric Modulator of the Serotonin 5-HT2c Receptor for Obesity. *Journal of Medicinal Chemistry*. 2017;60:9575-84. IF: 6.259. Article.
- Feliú A, Bonilla Del Río I, Carrillo-Salinas FJ, Hernández-Torres G, Mestre L, Puente N, Ortega-Gutiérrez S, López-Rodríguez ML, Grandes P, Mecha M, Guaza C. 2-Arachidonoylglycerol Reduces Proteoglycans and Enhances Remyelination in a Progressive Model of Demyelination. *Journal of Neuroscience*. 2017;37:8385-98. IF: 5.988. Article.
- Troupiotis-Tsaïlaki A, Zachmann J, González-Gil I, Gonzalez A, Ortega-Gutiérrez S, López-Rodríguez ML, Pardo L, Govaerts C. Ligand chain length drives activation of lipid G protein-coupled receptors. *Scientific Reports*. 2017;7:2020. IF: 4.259. Article.
- Wagner R, Stübiger G, Veigel D, Wuczkowski M, Lanzerstorfer P, Weghuber J, Karteris E, Nowikovsky K, Wilfinger-Lutz N, Singer CF, Colomer R, Benjamú B, López-Rodríguez ML, Valent P, Grunt TW. Multi-level suppression of receptor-PI3K-mTORC1 by fatty acid synthase inhibitors is crucial for their efficacy against ovarian cancer cells. *Oncotarget*. 2017;8:11600-13. IF: 5.168. Article.
- Artola M, Ruíz-Avila LB, Ramírez-Aportela E, Martínez RF, Araujo-Bazán L, Vázquez-Villa H, Martín-Fontecha M, Oliva MA, Martín-Galiano AJ, Chacón P, López-Rodríguez ML, Andreu JM, Huecas S. The structural assembly switch of cell division protein FtsZ probed with fluorescent allosteric inhibitors. *Chemical Science*. 2017;8:1525-34. IF: 8.668. Article.
- Marín-Ramos NI, Piñar C, Vázquez-Villa H, Martín-Fontecha M, González Á, Canales Á, Algar S, Mayo PP, Jiménez-Barbero J, Gajate C, Mollinedo F, Pardo L, Ortega-Gutiérrez S, Viso A, López-Rodríguez ML. Development of a Nucleotide Exchange Inhibitor That Impairs Ras Oncogenic Signaling. *Chemistry-A European Journal*. 2017;23:1676-85. IF: 5.317. Article.
- González-Vera JA, Medina RA, Martín-Fontecha M, Gonzalez A, de la Fuente T, Vázquez-Villa H, García-Cárceles J, Botta J, McCormick PJ, Benjamú B, Pardo L, López-Rodríguez ML. A new serotonin 5-HT6 receptor antagonist with procognitive activity - Importance of a halogen bond interaction to stabilize the binding. *Scientific Reports*. 2017;7:41293. IF: 4.259. Article.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- **Candidate:** Javier García Cárceles
Title: Moduladores alostéricos de receptores de serotonina y dopamina: nuevos fármacos sobre GPCRs.
Director/s: Mª Luz López Rodríguez, Bellinda Benjamú Salama, Henar Vázquez Villa
Date Defended: 27/04/2017
University: Universidad Complutense de Madrid

- **Candidate:** Débora Zian
Title: Los receptores LPA1 y LPA2 como nuevas dianas terapéuticas para el tratamiento de patologías del sistema nervioso central.
Director/s: Mª Luz López Rodríguez, Silvia Ortega Gutiérrez, Henar Vázquez Villa
Date Defended: 05/05/2017
University: Universidad Complutense de Madrid

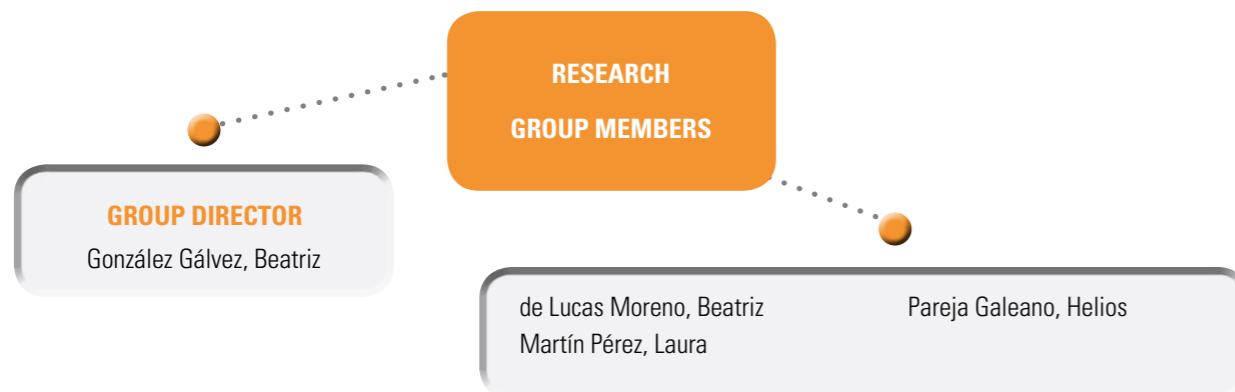
PATENTS

- **Title:** Novel biphenylsulfoximines as allosteric modulators of the dopamine D1 receptor.
Authors: Mª Luz López-Rodríguez, Bellinda Benjamú Salama, Mª del Henar Vázquez Villa, Javier García Cárceles, Fernando Rodríguez de Fonseca, José Manuel Brea Floriani, Mª Isabel Loza García.
Owner: Universidad Complutense de Madrid y Universidad de Santiago.
Reference: EP 17382372.
Priority country: Europe.
Date of Application: 19/06/2017

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

HOMEOSTASIS AND THE TISSUE

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

- Title: Desarrollo del uso de ultrasonidos pulsados para mejorar la capacidad regenerativa de las células madre cardiacas.
- Principal Investigator: Beatriz González Gálvez
- Funding Body: Ministerio de Economía y Competitividad (MINECO)
- Project No.: SAF2015-67911
- Start date: 01/01/2016
- End date: 31/12/2018

PUBLICATIONS*

Type of Document	No. of Documents	Σ IF (JCR 2016)
Articles	4	12.691
Reviews	1	6.190
Total	5	18.881
Letters	2	20.926
Total	7	39.807

- Santalla A, Nogales-Gadea G, Encinar AB, Vieitez I, González-Quintana A, Serrano-Lorenzo P, Consuegra IG, Asensio S, Ballester-López A, Pintos-Morell G, Coll-Cantí J, Pareja-Galeano H, Díez-Bermejo J, Pérez M, Andreu AL, Pinós T, Arenas J, Martín MA, Lucia A. Genotypic and phenotypic features of all Spanish patients with McArdle disease: a 2016 update. *BMC Genomics*. 2017;18:819. IF: 3.729. Article.
- Pareja-Galeano H, Santos-Lozano A, Sanchis-Gomar F, Fiúza-Luces C, Garatachea N, Gálvez BG, Lucia A, Emanuele E. Circulating leptin and adiponectin concentrations in healthy exceptional longevity. Mechanisms of Ageing and Development. 2017;162:129-32. IF: 3.087. Article.
- Fiúza-Luces C, Padilla JR, Valentín J, Santana-Sosa E, Santos-Lozano A, Sanchis-Gomar F, Pareja-Galeano H, Morales JS, Fleck SJ, Pérez M, Lassaletta A, Soares-Miranda L, Pérez-Martínez A, Lucia A. Effects of Exercise on the Immune Function of Pediatric Patients with Solid Tumors Insights from the PAPEC Randomized Trial. *American Journal of Physical Medicine & Rehabilitation*. 2017;96:831-7. IF: 1.734. Article.
- Fiúza-Luces C, Padilla JR, Soares-Miranda L, Santana-Sosa E, Quiroga JV, Santos-Lozano A, Pareja-Galeano H, Sanchis-Gomar F, Lorenzo-González R, Verde Z, López-Mojares LM, Lassaletta A, Fleck SJ, Pérez M, Pérez-Martínez A, Lucia A. Exercise Intervention in Pediatric Patients with Solid Tumors: The Physical Activity in Pediatric Cancer Trial. *Medicine and Science in Sports and Exercise*. 2017;49:223-30. IF: 4.141. Article.
- Pérez LM, de Lucas B, Lunyak VV, Gálvez BG. Adipose stem cells from obese patients show specific differences in the metabolic regulators vitamin D and Gas5. *Molecular Genetics and Metabolism Reports*. 2017;12:51-6. IF: N/A. Article.
- Kim BY, Lee SH, Graham PL, Angelucci F, Lucia A, Pareja-Galeano H, Leyhe T, Turana Y, Lee IR, Yoon JH, Shin JL. Peripheral Brain-Derived Neurotrophic Factor Levels in Alzheimer's Disease and Mild Cognitive Impairment: a Comprehensive Systematic Review and Meta-analysis. *Molecular Neurobiology*. 2017;54:7297-311. IF: 6.190. Review.
- Santos-Lozano A, Pareja-Galeano H, Lucia A. Is Weekend-Only Physical Activity Enough to Compensate for a Sedentary Lifestyle? *JAMA Internal Medicine*. 2017;177:1223-4. IF: 16.538. Letter.
- Morales JS, Garatachea N, Pareja-Galeano H. Vitamin D for Healthy Aging. *Journal of the American Geriatrics Society*. 2017;65:1629-30. IF: 4.388. Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

RESEARCH ON INTELLIGENT BIOMATERIALS



ACTIVE RESEARCH PROJECTS

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- 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, extended to 31/12/2017
- Title: PolyValent mEsopoRous nanosystem for bone Disease (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
- Title: Nanomateriales regenerativos en escenarios de patología ósea: osteoporosis e infección.
Principal Investigator: Daniel Arcos Navarrete, Mª Teresa Portolés Pérez
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Project No.: MAT2016-75611-R
Start date: 30/12/2016
End date: 29/12/2020
- Title: Exploración de la porosidad en Nanopartículas de oro (EXPLORAORO).
Principal Investigator: Miguel Manzano García
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Project No.: PIA142015-1
Start date: 01/05/2017
End date: 30/04/2018
- Various Intramural Research Projects: 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 IF (JCR 2016)
Articles	18	88.749
Reviews	5	22.666
Total	23	111.415

- Vallet-Regí M, Colilla M, Izquierdo-Barba I, Manzano M. Mesoporous Silica Nanoparticles for Drug Delivery: Current Insights. *Molecules*. 2017; IF: 2.861. Article.
- Maycas M, Portolés MT, Matesanz MC, Buendía I, Linares J, Feito MJ, Arcos D, Vallet-Regí M, Plotkin LI, Esbrit P, Gortázar AR. High glucose alters the secretome of mechanically stimulated osteocyte-like cells affecting osteoclast precursor recruitment and differentiation. *Journal of Cellular Physiology*. 2017;232:3611-21. IF: 4.080. Article.
- Martínez-Carmona M, Lozano D, Baeza A, Colilla M, Vallet-Regí M. A novel visible light responsive nanosystem for cancer treatment. *Nanoscale*. 2017;9:15967-15973. IF: 7.367. Article.
- Lopez V, Villegas MR, Rodriguez V, Villaverde G, Lozano D, Baeza A, Vallet-Regí M. Janus Mesoporous Silica Nanoparticles for Dual Targeting of Tumor Cells and Mitochondria. *ACS Applied Materials & Interfaces*. 2017;9:26697-706. IF: 7.504. Article.
- Sánchez-Salcedo S, García A, Vallet-Regí M. Prevention of bacterial adhesion to zwitterionic biocompatible mesoporous glasses. *Acta Biomaterialia*. 2017;57:472-86. IF: 6.319. Article.
- Mathew R, Turdean-Ionescu C, Yu Y, Stevensson B, Izquierdo-Barba I, García A, Arcos D, Vallet-Regí M, Edén M. Proton Environments in Biomimetic Calcium Phosphates Formed from Mesoporous Bioactive CaO-
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*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 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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- Vallet-Regí M, Salinas AJ. Mesoporous Bioactive Glasses in Tissue Engineering and Drug Delivery. *RSC Smart Materials*. 2017;23:393-419. IF: N/A. Article.
- Baeza A, Ruiz-Molina D, Vallet-Regí M. Recent advances in porous nanoparticles for drug delivery in antitumoral applications: inorganic nanoparticles and nanoscale metal-organic frameworks. *Expert Opinion on Drug Delivery*. 2017;14:783-96. IF: 5.657. Review.
- Baeza A, Castillo RR, Torres-Pardo A, Gonzalez-Calbet JM, Vallet-Regí M. Electron microscopy for inorganic-type drug delivery nanocarriers for antitumoral applications: what does it reveal? *Journal of Materials Chemistry B*. 2017; 5:2714-25. IF: 4.543. Review.
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- Castillo RR, Colilla M, Vallet-Regí M. Advances in mesoporous silica-based nanocarriers for co-delivery and combination therapy against cancer. *Expert Opinion on Drug Delivery*. 2017;14: 229-43. IF: 5.657. Review.
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- Mora-Raimundo P, Manzano M, Vallet-Regí M. Nanoparticles for the treatment of osteoporosis. *Aims Bioengineering*. 2017;4:259-74. IF: N/A. Review.

THESES DEFENDED OR DIRECTED IN THIS GROUP

- Candidate:** Valentina Nicolini
Title: Ce3+/Ce4+-containing potential bioactive glasses: synthesis, characterization and evaluation of enzyme-like activity.
Director/s: Ledi Menabue, Antonio Jesús Salinas Sánchez
Date Defended: 05/04/2017
University: Universidad de Modena y Reggio Emilia

- Candidate:** Juan Luis París Fernández de la Puente
Title: Nanopartículas de sílice mesoporosa sensibles a ultrasonido para aplicaciones biomédicas.
Director/s: Miguel Manzano García, M^a Victoria Cabañas Criado
Date Defended: 14/12/2017
University: Universidad Complutense de Madrid

PRIZES AND AWARDS

Prizes awarded to María Vallet Regí:

- The 500 most influential Spanish women. Yo Dona Magazine. November 2017.
- The Opinion leaders paper by Professor Vallet is outstanding and was congratulated at the inaugural ceremony of the 28 Congreso de la Sociedad Europea de Biomateriales. Atenas. September 2017.
- Julio Peláez Award for Pioneers in Physical and Chemical Science and Mathematics of Fundación Tatiana Pérez de Guzmán el Bueno. July 2017.
- Chosen to be a member of Fundación Gadea por la Ciencia. May 2017.
- Elected Fellow of Biomaterials Science and Engineering of the International College of Fellows of Biomaterials Science and Engineering (ICF-BSE). Washington. March 2017.
- Ranking 55 among scientific researchers in Spanish institutions. Project ACUMEN European Commission 7th Framework Programme, Capacities, Science in Society 2010. Grant Agreement 266632 and the CSIC Intramural

GENETICS AND INHERITANCE**ACTIVE RESEARCH PROJECTS**

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
TOTAL		2

- 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	Σ IF (JCR 2016)
Articles	1	3.494
Editorials	1	3.494
Total	2	6.988

- Zurita-Díaz F, Galera-Monge T, Moreno-Izquierdo A, Corton M, Ayuso C, Garesse R, Gallardo ME. Establishment of a human DOA 'plus' iPSC line, IISHDOi003-A, with the mutation in the OPA1 gene: c.1635C> A p.Ser545Arg. Stem Cell Research. 2017;24:81-4. IF: 3.494. Article.
- Ortuno-Costela MD, Rodriguez-Mancera N, Garcia-Lopez M, Zurita-Díaz F, Moreno-Izquierdo A, Lucia A, Martin MA, Garesse R, Gallardo ME. Establishment of a human iPSC line (IISHDOi001-A) from a patient with McArdle disease. Stem Cell Research. 2017;23:188-92. IF: 3.494. Editorial Material.



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*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2016 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.