APPENDIX

Publications

Training Programs and Courses

Seminars, Events and Awards

Strategic Alliances

Funding

Patent Portfolio

Staff Figures

There were 215 CNIC publications in 2015, 195 of them in JCR-listed journals with an Impact Factor (IF). Of the total publications, 62% were produced through collaboration with foreign institutions and 29% with national institutions, and 9% were authored solely by CNIC researchers.

A CNIC scientist was a main author on 60% of the publications. The mean IF for all the articles was 6.984.

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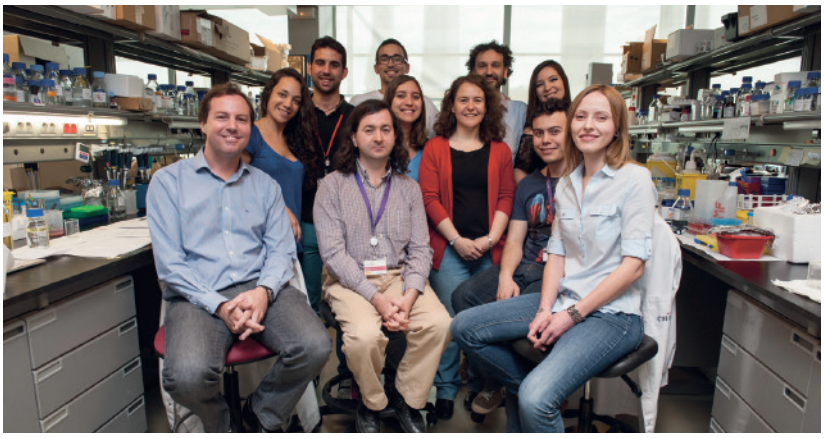

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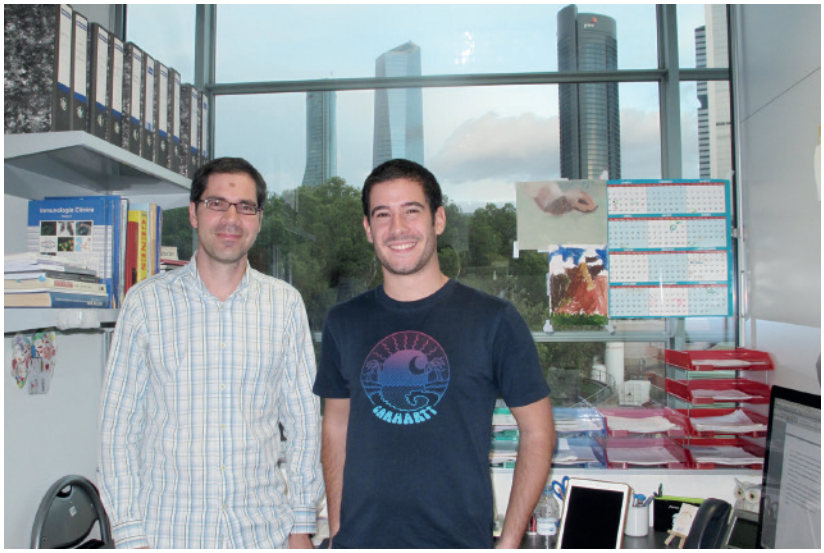

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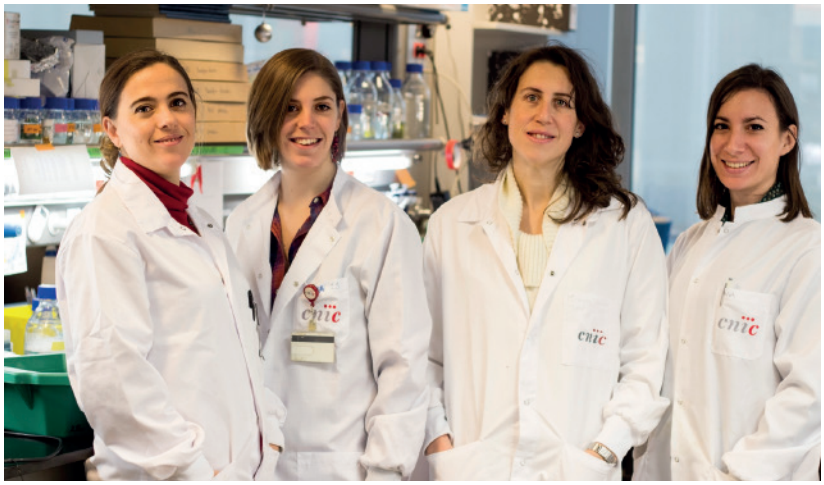

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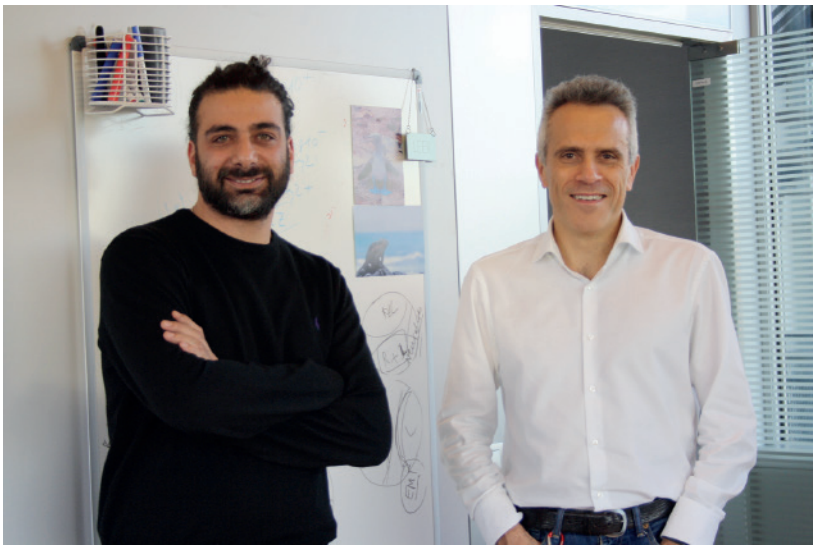

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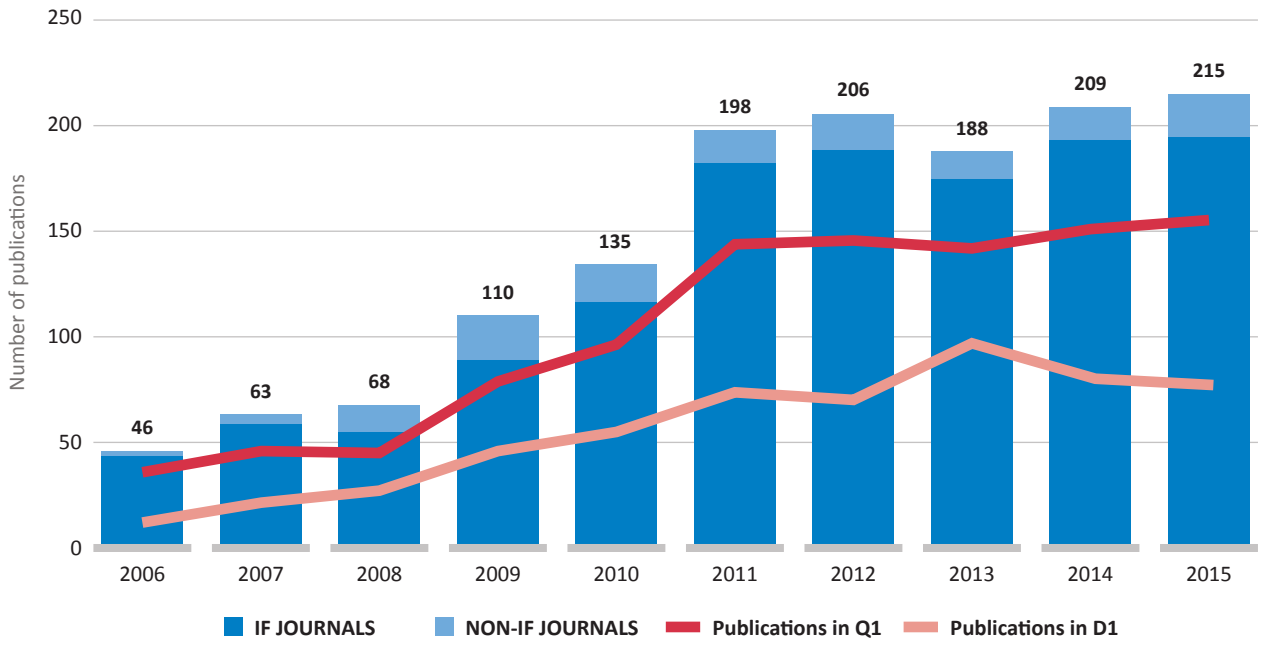
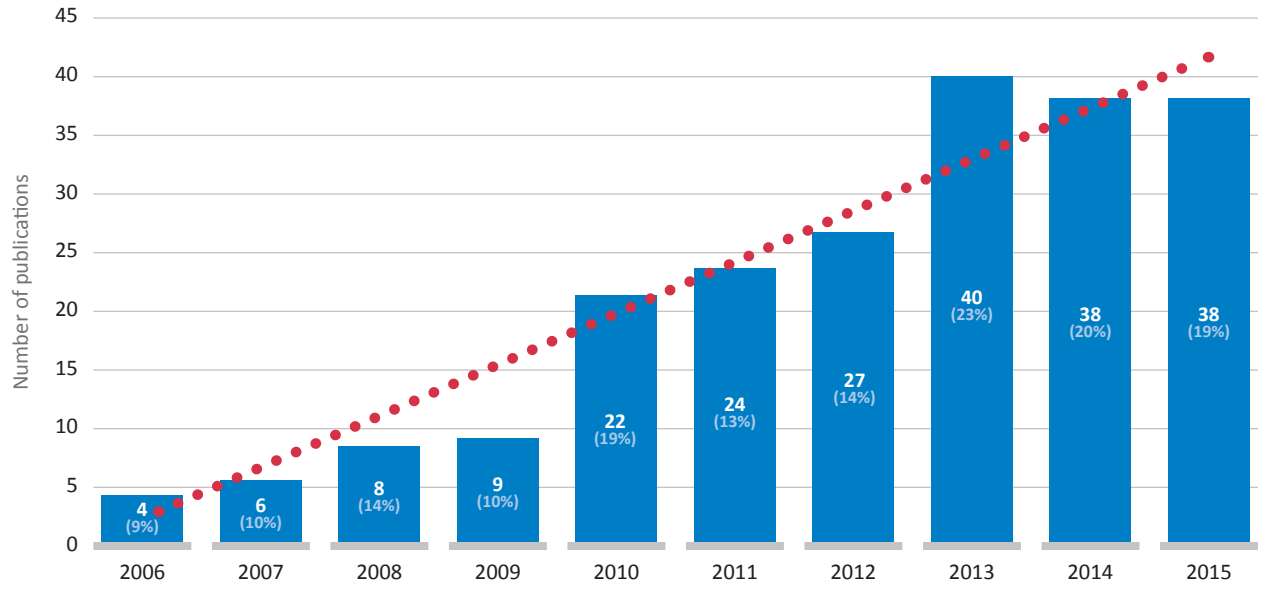


PUBLICATIONS IF>10



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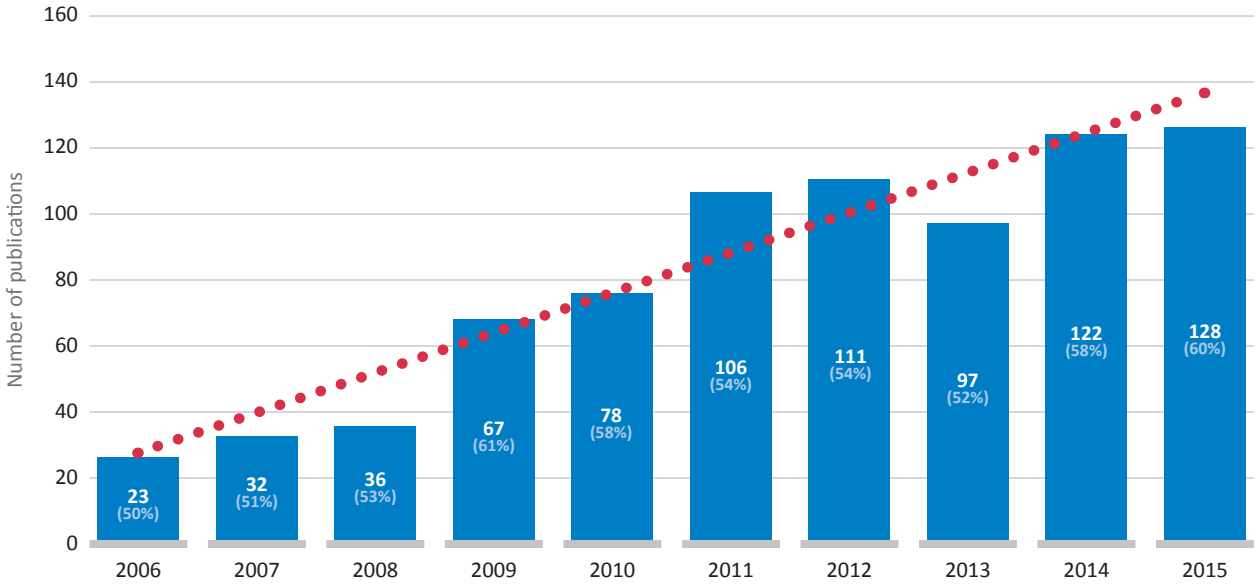
PUBLICATIONS CNIC MAIN AUTHOR



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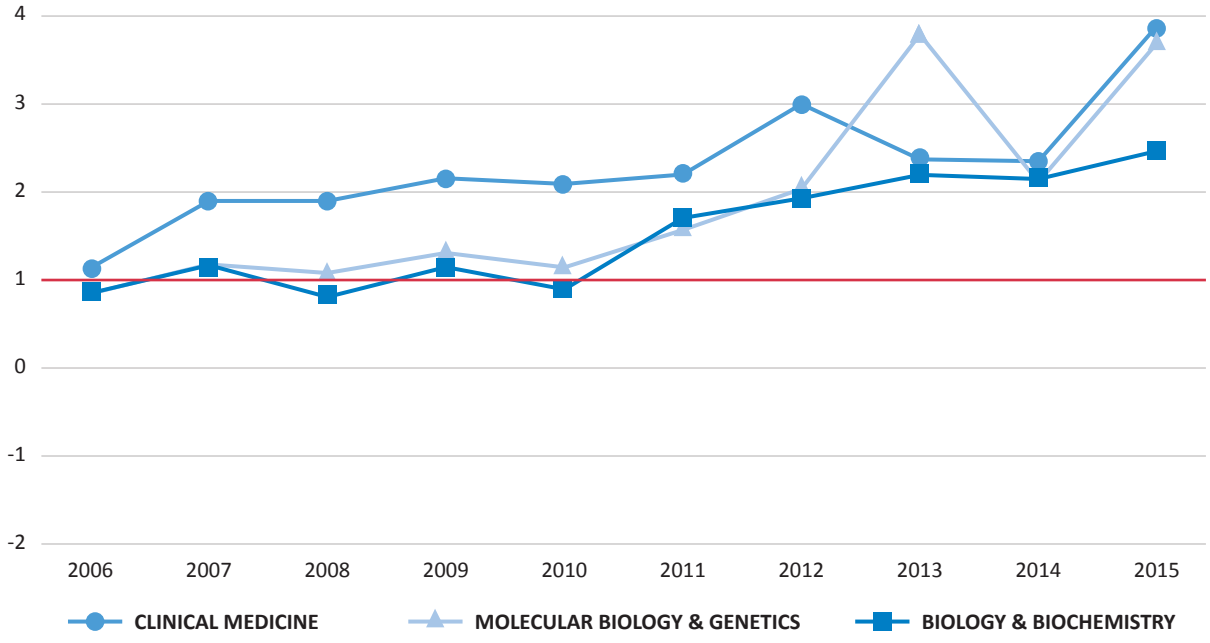


Training is one of the CNIC's core activities, and the Center has devised a comprehensive training plan, **CNIC-JOVEN**, which includes programs for people at all levels, from senior high-school students to postdoctoral researchers and other professionals.

The CNIC-JOVEN Training Plan is designed to bring young people into biomedical research and create a strong base of talented researchers in the cardiovascular area.

Pre-university & Undergraduate Students

ACÉRCATE Program

The ACÉRCATE Program offers senior high school students studying natural and health sciences the chance to experience life as a biomedical researcher, with the aim of awakening interest in a career in research.

Participants spend two weeks at the CNIC, learning modern techniques used in biomedical research, conducting supervised experiments, operating sophisticated scientific equipment and presenting the results of their work, all under the supervision of our researchers.

Fellowships in 2015: *8*

CICERONE Program

The CICERONE Program is open to advanced undergraduate students studying toward a biomedicine-related university degree. Participants extend their scientific training through hands-on experience of laboratory-based biomedical research during the summer recess. In addition to carrying out a supervised research project, the students also attend CNIC seminars and workshops.

The aim of the program is to give university students first-hand knowledge of biomedical research so that they can make informed choices about the possibility of pursuing a scientific career.

Fellowships in 2015: *35*

Recent Graduates

CARDIOVASCULAR POSGRADUATE Program

The CNIC is developing a Cardiovascular Postgraduate Program, run through collaboration with Spanish universities. The first strand in this Program has been established through a formal agreement with the Universidad Autónoma de Madrid (UAM).

In the academic year 2014-2015, the CNIC partnered in the Masters in Molecular Biomedicine, offering a module in Cardiovascular Disease. This optional module provides a broad overview of cardiovascular biology, including perspectives from basic, clinical and translational research.

Dates: *13 January-18 February 2015*
Venue: *CNIC*
UAM MSc Students: *14*
CNIC PhD students: *17*

MASTER Program

This grants program provides individual funding for study towards a Masters degree at a Spanish university. The program is directed at students who are going to study for a PhD in one of the CNIC's laboratories: completion of an official Masters (Máster Oficial) has been introduced as an obligatory stage towards a PhD in Spain, in accordance with the Bologna process to standardize academic qualifications across Europe.

Fellowships in 2015: *14*

PREDOCTORAL (PhD) Program

The PREDOCTORAL Program provides a unified framework for all researchers at the CNIC who are working toward a doctoral degree. All predoctoral researchers are signed up to this program, independently of their funding source.

The aims of the program are as follows:

- To ensure uniform quality of predoctoral training at the CNIC
- To ensure fair and equal access of predoctoral researchers to training opportunities

Graduate students at the CNIC who obtained their PhD degrees in 2015: *10*
Graduate students studying for their PhD theses at the CNIC during 2015: *77*

LA CAIXA-SEVERO OCHOA INTERNATIONAL PhD Program

The *la Caixa* Foundation is a non-profit organisation funded by the third largest bank in Spain, the Caja de Ahorros y Pensiones de Barcelona (*la Caixa*). Since 1982, the *la Caixa* Foundation has run various fellowship programs to enable Spanish students to study postgraduate courses in Spain and abroad. Thanks to this support, thousands of students have been able to pursue their studies.

The *la Caixa* Foundation funds fellowships at the CNIC in recognition of the Center's status as one of the Spanish centers of excellence named in the first and second editions of the Severo Ochoa Award. In 2015 the *la Caixa* Foundation provided support for two highly qualified graduate students to carry out their experimental work towards obtaining a PhD degree at the CNIC within an International PhD Program.

la Caixa Fellowships in 2015: *2*

Graduates & Medical Professionals

RES@CNIC Program

The aim of the Res@CNIC Program is to offer medical professionals, during the first years of their specialization period as resident interns, the opportunity to learn about and become familiar with the latest techniques in cardiovascular research being used in the CNIC's laboratories, under the guidance of a CNIC scientist. Residents participating in RES@CNIC also receive training in theoretical aspects of cardiovascular research through a taught module run by experts. The Program also seeks to create links and collaborations so that on conclusion of their MIR specialization period, these professionals will have the chance to undertake research projects in their respective National Health System centers in partnership with the CNIC.

RES@CNIC was launched in 2012. Students selected for the fourth call will join the CNIC during January and February 2016.

Selected candidates for the fourth call: *6*

INVESMIR Program

The INVESMIR Program offers medical professionals during their specialization period as resident interns the opportunity to further their training through a research project in one of the CNIC's laboratories, under the supervision of a CNIC scientist.

An important aim of the program is that participants establish contacts and collaborations in the CNIC that will support them, after completion of their MIR specialization training, in pursuing their own research projects at their centers within the Spanish National Health System.

Fellowships in 2015: *2*

FICNIC Program

In 2014 the CNIC partnered with the Fundación Jesús Serra (FJS) and the *Fundación Interhospitalaria para Investigación Cardiovascular* (FIC) to create this program, aimed at promoting training in translational cardiovascular research. The program offers training fellowships to medical professionals specializing in cardiology or cardiovascular surgery.

The FICNIC Program is intended for medical professionals during the final year of their resident intern physician (MIR) specialization period or cardiologists or cardiovascular surgeons within three years of completing their specialization.

In 2015 the fellowship awarded in 2014 was renewed.

VALENTÍN FUSTER Program

The *Instituto de Investigación Hospital 12 de Octubre* (i+12) offers a position for a medical researcher/physician in the cardiovascular area at the *Hospital Universitario 12 de Octubre* (H12O), Madrid. The position is offered through the formal partnership between the H12O Research Foundation and the CNIC, established to promote research excellence in the cardiovascular field.

The aims of this program are to establish the profile of the translational researcher/physician, dedicated to the efficient translation of research results to the clinic and the generation of research hypotheses from a clinical standpoint and to contribute to the consolidation of the research component within the career of clinical researchers in the Spanish National Health System.

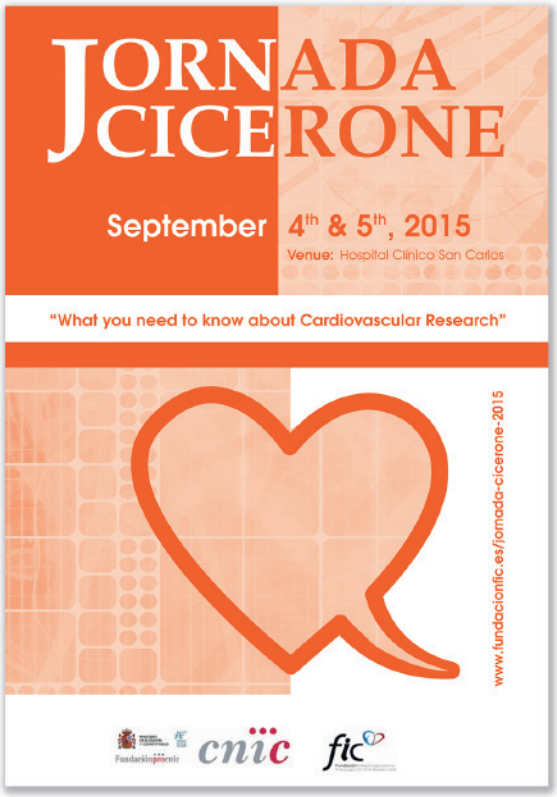
The position offered within this program was awarded to the candidate Héctor Bueno Zamora.

CICERONE Workshop: "What you need to know about cardiovascular research"

Fundación Interhospitalaria Investigación Cardiovascular

This lecture series provides a general introduction to cardiovascular research in Spain, and also gives participants the chance to question key researchers and opinion leaders in the field. Since 2012, the Jornada CICERONE has been run in collaboration with the *Fundación Interhospitalaria para la Investigación Cardiovascular* and takes place at the Hospital Clínico San Carlos, Madrid.

Dates: *September 4 and 5, 2015*
Attendees: *89*

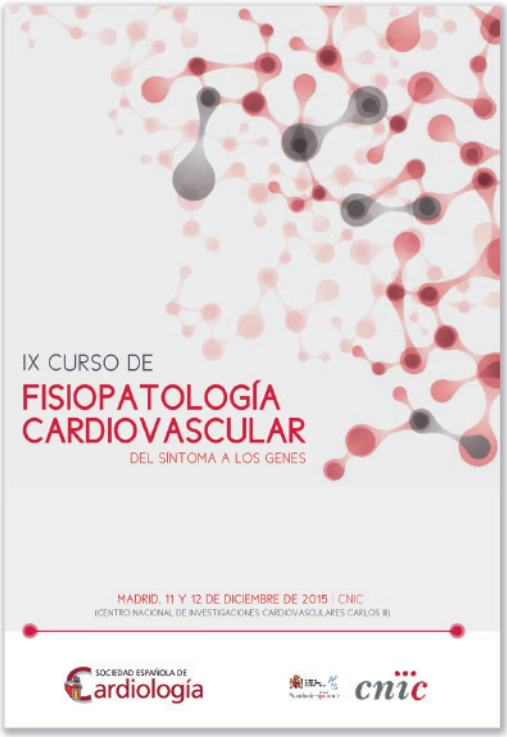


CARDIOVASCULAR PATHOPHYSIOLOGY Course: From symptoms to genes

SOCIEDAD ESPAÑOLA DE Cardiología

The CARDIOVASCULAR PATHOPHYSIOLOGY course is offered in collaboration with the Sociedad Española de Cardiología. This course offers a translational vision of cardiology to medical specialists by introducing them to the study of pathophysiology and basic research. Participants are given an overview of the molecular and genetic factors that underlie cardiac diseases and gain an up-to-date vision of cardiac physiology.

Dates: *December 11 and 12, 2015*
Venue: *CNIC Lecture Hall*
Attendees: *95*



VASCULAR BIOLOGY Course

Dr. Valentín Fuster delivers this lecture series, sponsored by FERRER, on "Vascular biology: basic and clinical research" as part of the summer program of the *Universidad Internacional Menéndez Pelayo* (UIMP).

Dates: *July 20 and 21, 2015*
Attendees: *323*

Research Professionals

CNIC International Postdoctoral Program

The CNIC International Postdoctoral Program (CNIC IPP) is aimed at supporting transnational mobility of postdoctoral researchers and broadening and deepening their individual competence, particularly in relation to the acquisition of complementary skills needed to become an independent group leader in the future. The program offers fellowships for researchers who hold a PhD Degree at the time of the application deadline.

Fellowships awarded in 2015: *5*

The CNIC-IPP is supported by the CNIC and the European Commission under the FP7 Marie Curie Actions- PEOPLE- COFUND Programme.

Seminars and Events

January

26 **Peter Tontonoz**
Howard Hughes Medical Institute and Laboratory Medicine University of California
Los Angeles, USA

February

6 **Shahin Rafii**
Weill Corner Medical College, Cornell University
New York, USA

9 **Michel Nussenzweig**
Howard Hughes Medical Institute, The Rockefeller University
New York, USA

March

6 **Alejo Efeyan**
Whitehead Institute for Biomedical Research
Cambridge, Massachusetts, USA

13 **Miguel López**
School of Medicine & the Research Centre of Molecular
Medicine and Chronic Diseases (CIMUS),
Universidad de Santiago de Compostela, Spain

23 **Edward E. Morrisey**
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, USA

April

13 **Mitch Lazar**
Institute for Diabetes, Obesity, and Metabolism / Perelman School of Medicine at the University of Pennsylvania
Philadelphia, USA

17 **Leonard I Zon**
Boston Children's Hospital • HHMI
Boston, USA

27 **Matthias Nahrendorf**
MGH Center for Systems Biology, Harvard Medical School
Boston, USA

May

11 **Jean-Luc Balligand**
Institut de Recherche Experimentale et Clinique (IREC),
University of Louvain Medical School
Brussels, Belgium

19 **Sandeep V. Pandit**
Center for Arrhythmia Research, University of Michigan
Ann Arbor, USA

21 **Pedro Fernández Salguero**
Facultad de Ciencias, Universidad de Extremadura
Badajoz, Spain

25 **Fiona Watt**
Centre for Stem Cells and Regenerative Medicine, Kings College London
UK

29 **Yasuyuki Fujita**
Institute for Genetic Medicine, Hokkaido University Japan

June

8 **Stanley Nattel**
University of Montreal / Montreal Heart Institute Research Center / Canadian Journal of Cardiology
Montreal, Quebec, Canada

21-22 **V CNIC Conference**
Vulnerable Patient Meeting

13 **Ángel R. Nebreda**
Institute for Research in Biomedicine
Barcelona, Spain

17 **Mª Ángeles Moro**
Universidad Complutense de Madrid
Spain

18 **David del Álamo**
EMBO Journal
Heidelberg, Germany

26 **Pere Puigserver**
Harvard Medical School
Boston, USA

July

6 **Bing Ren**
UCSD School of Medicine and Ludwig Institute for Cancer Research, University of California San Diego
La Jolla, USA

7 **Pura Muñoz**
ICREA and Pompeu Fabra University
Barcelona, Spain

13 **Jeff. W. Bulte**
Johns Hopkins Institute for Cell Engineering
Baltimore, USA

27 **Eva Nogales**
University of California
Berkeley, USA

September

4-5 **Jornada Cicerone 2013**
What You Need to Know About Cardiovascular Research

10 **Greg Lemke**
Salk Institute for Biological Studies
La Jolla, California, USA

15 **Michael Schnoor**
Leibniz-Institute of Arteriosclerosis Research.
University of Münster
Germany

21 **Duojia Pan**
School of Medicine & the Research Centre
Howard Hughes Medical Institute, Johns Hopkins University School of Medicine
Baltimore, USA

22 **Aleksander Popel**
Johns Hopkins University
Baltimore, USA

25 **La noche de los investigadores**
Bioingeniería: La investigación cardiovascular del futuro

October

5 **Mathias Gautel**
New Hunt's House , King's College London
UK

19 **Juhani Knuuti**
Turku PET Centre, University of Turku and Turku University Hospital
Finland

23 **CNIC-Perkin Elmer 2nd High Content Screening Workshop**

26 **James Eberwine**
PENN Genome Frontiers Institute, University of Pennsylvania,
Philadelphia, USA

November

3 **Sesión Informativa Horizonte 2020 sobre Convocatoria ITN 2016**
Acciones Marie Sklodowska – Curie ITN

11 ***Semana de la Ciencia* (Science Week)**
Ven a CNIC: Visita interactiva a sus departamentos para conocer la investigación cardiovascular

27 **CNIC PhDay**

30 **Jeroen Bax**
Leiden University Medical Center
The Netherlands

December

11-12 **IX Curso de Fisiopatología Cardiovascular**
Del síntoma a los genes

Awards

Fuster, Valentín

- Fundación Ferrer Investigación, XXI Premio Severo Ochoa de Investigación Biomédica.
- La Gran Cruz de la Orden Civil de Sanidad, España.
- American College of Cardiology Award for "Leadership in Global Population Health Education, Research, Science", Washigton DC, USA.
- American Association of Clinical Endocrinologists, "Frontiers in Science Award".
- Fellow of the European Respiratory Society, in Recognition of Excellence in Scientific and/or Educational Contributions to Respiratory Medicine, Amsterdem, The Netherlands.
- Honorary Professor, Instituto Universitario Escuela de Medicina del Hospital Italiano, Buenos Aires, Argentina.
- La Sociedad Ecuatoriana de Cardiologia. Recognition Award for Valuable Support in the Progress to Prevent Cardiac Diseases, Quito, Ecuador.

Jalife, José

- Douglas P. Zipes Lecture. Heart Rhythm Society.
- Doctor Honoris Causa. University of Valencia, Spain.

D'Amato, Gaetano

- Best poster Prize. 2015 Weinstein Conference on Cardiovascular Development, Boston MA, USA.

Filgueiras, David

- Premio Extraordinario de Doctorado. Universidad Autónoma de Madrid.

Izquierdo-García, José L.

- ISMRM MERIT AWARD Summa cum laude. International Society of Magnetic Resonance in Medicine.

Mittelbrunn, María

- Bolsas de investigación 2015 del programa L'Oréal–UNESCO For Women in Science.

Nicolás Ávila, José Ángel

- Premio Inmunotek Investigación Básica. Inmunotek.

Pellico, Juan

- EMIM 2015 Excellence Award. European Society for Molecular Imaging (EMIM).

Sanz Morejón, Andrés

- First Prize. Biological and Biomedical Sciences Area. Master work: Nuevas Estrategias para el Estudio de la Regresión de la Fibrosis Durante la Regeneración Cardíaca del Pez Cebra. XIV Certamen Arquímedes de introducción a la investigación.

The CNIC consolidates and expands its alliances to investigate, train, innovate and transfer.

In 2015, the CNIC signed 29 interinstitutional agreements to create or consolidate partnerships.

In the education sector, the CNIC expanded its already wide academic network (established agreements with 15 universities) by signing new collaboration agreements with universities in Spain (Universidad Politécnica de Valencia; Universidad de Granada; and Universidad Autónoma de Barcelona). Moreover, the CNIC also strengthened its links with foreign universities, mostly through the establishment of student exchange programs and short visits for practical work in the CNIC's laboratories. Five new international agreements were signed last year (Universidad Autónoma de Puebla, Mexico; Universities of Bern and Lausanne, Switzerland; Aarhus University, Denmark; and Universita degli Studi di Verona, Italy).

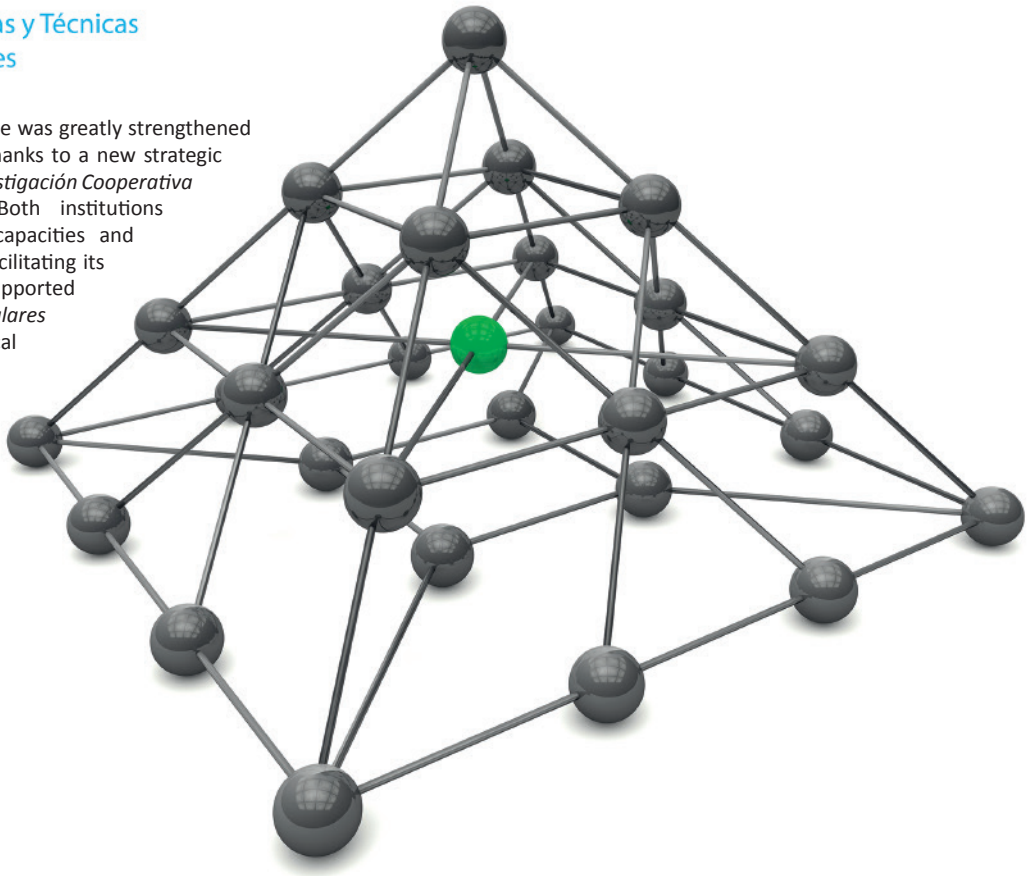
The Center also reinforced its postgraduate medical programs by establishing a new partnership with the Hospital Universitario 12 de Octubre (H12O) Research Foundation. Through this partnership, the Center has launched the VALENTIN FUSTER Program, which supports medical researchers/physicians to promote research excellence in the cardiovascular field. Thanks to this program, Dr. Hector Bueno has joined the CNIC.

Links with the clinical sector have been consolidated through the signing of new agreements with Spanish hospitals (Fundación Hospitales Madrid) and foreign clinical institutions (Memorial Sloan Kettering Cancer Center, New York; VU Medical Center, The Netherlands).

The CNIC also expanded its links with the commercial biotechnology sector with the signing of a research collaboration agreement with Pacesetter Inc. to study the role of atrial fibrillation in cardiac remodeling.

Infraestructuras Científicas y Técnicas Singulares

Finally, the CNIC's international profile was greatly strengthened in the area of biomedical imaging thanks to a new strategic alliance with the *Centro Vasco de Investigación Cooperativa en Biomateriales* (BiomaGUNE). Both institutions will integrate their technological capacities and equipment in biomedical imaging, facilitating its inclusion in the new government supported *Instalaciones Científico Técnicas Singulares* (ICTS: Specific Scientific-Technical Installations), which have been designed to place Spain in a more competitive position internationally.



Public-Private Partnership

In December 2005, the Spanish Government signed an agreement with a group of some of the most important Spanish businesses (Pro CNIC Foundation, **http://www.fundacionprocnic.es**) to sponsorship the CNIC.

Since the signing of this agreement, the CNIC's funding has been based on a public-private partnership (PPP) of a broad, socially-committed nature. The Pro CNIC Foundation does much more than provide the CNIC with money; it also contributes its accumulated managerial and business expertise. Representatives of the Pro CNIC Foundation sit on the CNIC's Board of Trustees and actively participate in the management, planning and decision taking related to the Center.

A major strength of this socially-committed PPP model is that it provides a more solid base than traditional forms of charitable financing, giving the CNIC a more stable financial base than it would have if it depended on sporadic donations from benefactors. This stability gives the CNIC greater freedom to commit itself to long-term, high-return research strategies in collaboration with public and private institutions, and allows for a more effective use of its own resources generated through competitive projects and the exploitation of intellectual property rights.

The current members of the Pro CNIC Foundation are **Acciona**, **BBVA**, **Endesa**, **Fundación Abertis**, **Fundación Mutua Madrileña**, **Fundación Mapfre**, **Banco Santander**, **Fundación Ramón Areces**, **Fundación Repsol**, **Gas Natural Fenosa**, **Grupo Prisa**, **Inditex**, **la Caixa**, and **Telefónica**.

Private Funding

Competitive Funding

From 2007 to 2015 the CNIC attracted **more than €51 million from national competitive sources**, mostly national public funding agencies.

The **CNIC has recently renewed its prestigious accreditation as a *Severo Ochoa* Center of Excellence** for a further 4 years (2016-2019).

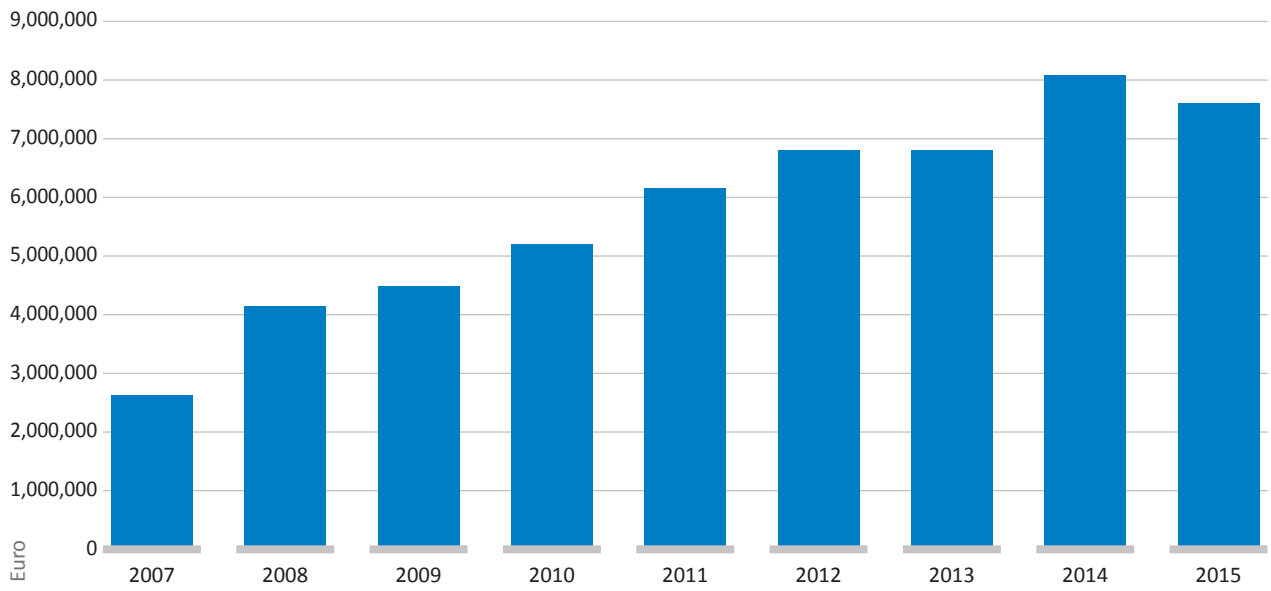
In 2015, CNIC researchers participated in more than 30 different national calls being successful in 48 applications.

In the same period (2007 to 2015), the CNIC attracted **more than €31 million from international competitive sources**.

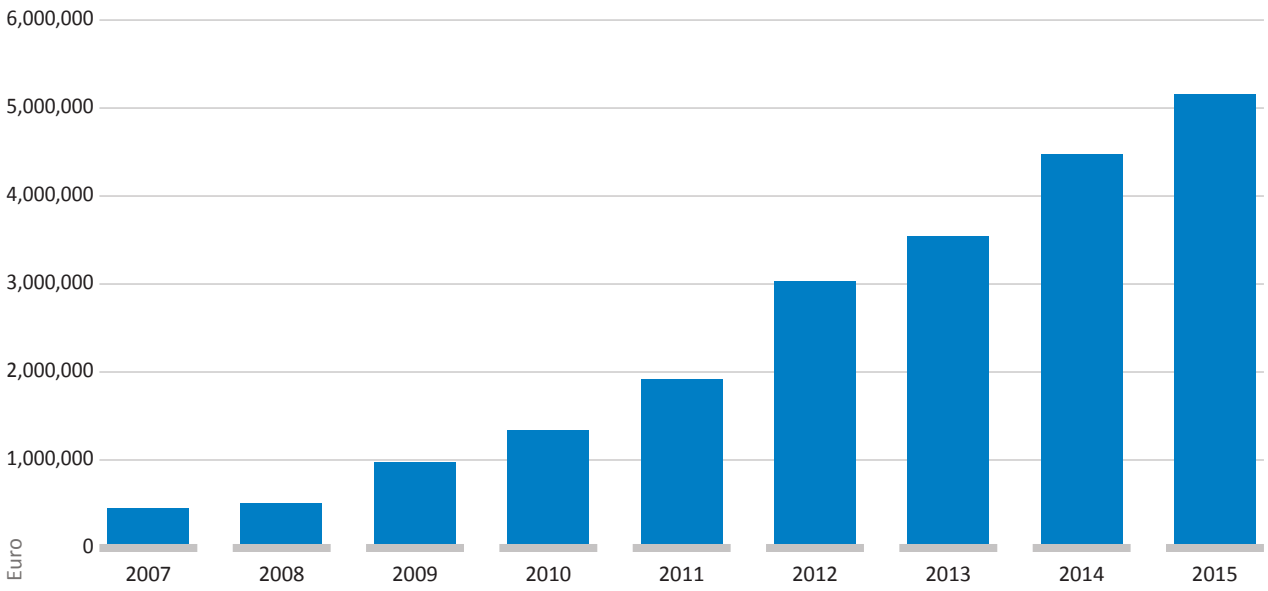
The CNIC participated in **34 projects funded under the European Commission's Seventh Framework Programme (FP7)** and is engaged in **11 projects** funded under the EU Research and Innovation **Horizon 2020 (H2020)** programme. Moreover, the Center is the top-ranking Spanish institution for funding awarded under the EC Societal Challenge *Health, Demographic Change and Wellbeing* (H2020-2014 call).

The international scientific competitiveness of the CNIC's research groups is highlighted by their high representation in projects funded by the **European Research Council (ERC)**, which funds Europe's brightest minds to tackle innovative research challenges. The CNIC contributes to the achievement of this goal through **5 ERC projects awarded under FP7 and 4 awarded under H2020**.

National Competitive Funding



International Competitive Funding



The distribution of funds per calendar year was obtained by dividing the total amount of each award by the foreseen duration of the project.

Twenty inventions are currently being filed, twelve of them in partnership with other institutions.

TECHNOLOGY OFFERS AVAILABLE FOR OUT-LICENSING

TITTLE	INVENTORS	APPLICANTS	PATENT APPLICATIONS
Methods of using the Calcineurin A variant CnAB1 for the treatment of cardiac hypertrophy	Enrique Lara Pezzi, Nadia Rosenthal, María López Olañeta, María Villalba Orero, Jesús Gómez Salinero	CNIC, EMBL	PCT, US, EP
Uso de agonistas selectivos de receptores beta-3 adrenérgicos para el tratamiento de hipertensión pulmonar	Borja Ibañez Cabeza, Valentín Fuster Carulla, Ana García-Álvarez	CNIC , CLINIC	PCT, JP, US, EP
Terapia neuroregeneradora/neurocompensatoria para el tratamiento de las neoplasias mieloproliferativas	Simón Méndez Ferrer, Lorena Arranz Salas, Joan Isern Marín	CNIC	PCT, JP, US, EP
AAV vectors for the treatment of ischemic and non-ischemic heart disease	Enrique Lara Pezzi, Borja Ibáñez Cabeza, Enda Joseph Clinton, Jesús María Gómez Salinero, María Villalba Orero, David Sanz Rosa, Juan Antonio Bernal Rodríguez	CNIC	EP, PCT
Micellar nanoparticles containing antitumoral glycosides	Hugo Groult, Fernando Herranz Rabanal, Jesús Ruiz-Cabello Osuna, Alfonso Fernández-Mayoralas Álvarez, Manuel Nieto Sampedro, Lorenzo Romero Ramírez, Isabel García Álvarez	CNIC, CSIC, CIBER	EP, PCT
Bimodal fluorophore-labeled liposomes and associated methods and systems	Carlos Pérez-Medina, Thomas Reiner, Jason S. Lewis, Wilem J.M. Mulder, Zahi A. Fayad	MSKCC, MSSMMOUNT SINAI, CIBERES, CNIC	US,PCT
Single core radionuclide-metal oxide nanoparticles: a new biocompatible nanosystem for dual hot spot imaging	Jesús Ruiz-Cabello Osuna, Fernando Herranz Rabanal, Riju Bhavesh, Juan Pellico Sáez	CNIC, UCM	EP, PCT
Method of predicting or prognosticating neurological performance in patients who have suffered a cardiac arrest and optionally comatose status due to ventricular fibrillation	David Filgueiras Rama, Esteban López de Sá y Areses, José Millet Roig, Conrado Javier Calvo Sainz	CNIC, UPV, Hospital Universitario La Paz	EP, PCT
Method and system for generating MR images of a moving object in its environment	Javier Sánchez González, Nils Dennis Nothnagel, Borja Ibáñez Cabeza, Rodrigo Fernández Jiménez, Valentín Fuster Carulla	Philips, CNIC	EP, PCT
Método de detección de predisposición a padecer cardiopatía dilatada	Pablo Garcia Pavía, Sofía Cuenca, Laura Padrón de Vaumas, Enrique Lara Pezzi	Fundación Investigación Hospital Puerta de Hierro, CNIC	ES
Optic device and method for detecting cardiovascular disease	Vicente Andrés García, Cristina Rius Leiva, Beatriz Julia Dorado de la Corte, Tobias Ackermann, Xavier Muñoz Berbel, Andreu Llobera Adan	CNIC, CSIC	ES
MiRNA compositions for the treatment of mature B-cell neoplasms	Almudena Rodríguez Ramiro, Nahikari Bartolomé Izquierdo, Virginia García de Yébenes Mena	CNIC	EP

TITTLE	INVENTORS	APPLICANTS	PATENT APPLICATIONS
p38 inhibitors for the treatment and prophylaxis of liver cancer	Ana Martinez Gil, Carmen Gil Ayuso-Gontán, Guadalupe Sabio Buzo, Antonia Tomás Loba, Bárbara González Terán, Elisa Manieri	CNIC, CSIC	EP
Biophotonic devices and methods of use	Vicente Andrés García, Vicente, Beatriz Julia Dorado de la Corte, Cristina Rius Leiva, Tobias N. Ackermann, Xavier Muñoz Berbel, Andreu Llobera Adan	CSIC, Aarhus University, CNIC	EP
Procedimiento de obtención de datos útiles para el diagnóstico de cardiomiopatías	María Pilar Martín Fernández, Raquel Sánchez Díaz, Adela Matesanz Marín, Luis Jesús Jiménez Borreguero, Francisco Sánchez Madrid	CNIC	EP

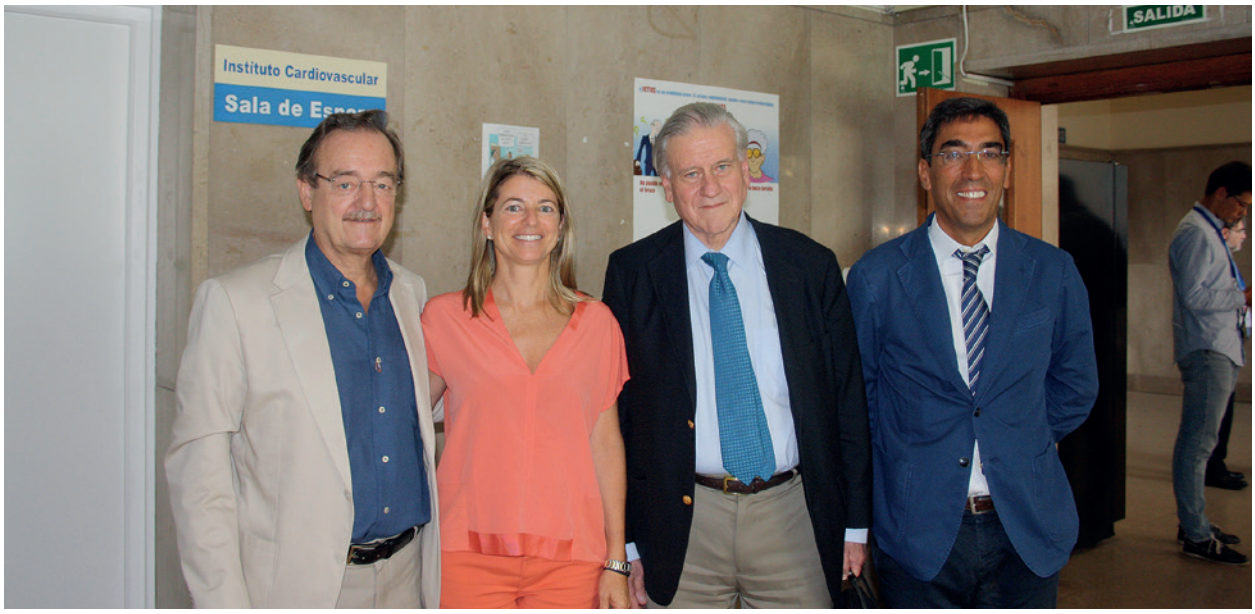
Patent Applications:
ES - Spain
PCT - International
EP - Europe
US – USA
JP- Japan

ACTIVE LICENSED AGREEMENTS

TITLE: "Capsule for the prevention of cardiovascular diseases"
APPLICANTS: CNIC, FERRER
LICENSEE: FERRER

TITLE: "Method for identifying senescent mesenchymal stem cells"
APPLICANT: CNIC
LICENSEE: NIMGenetics

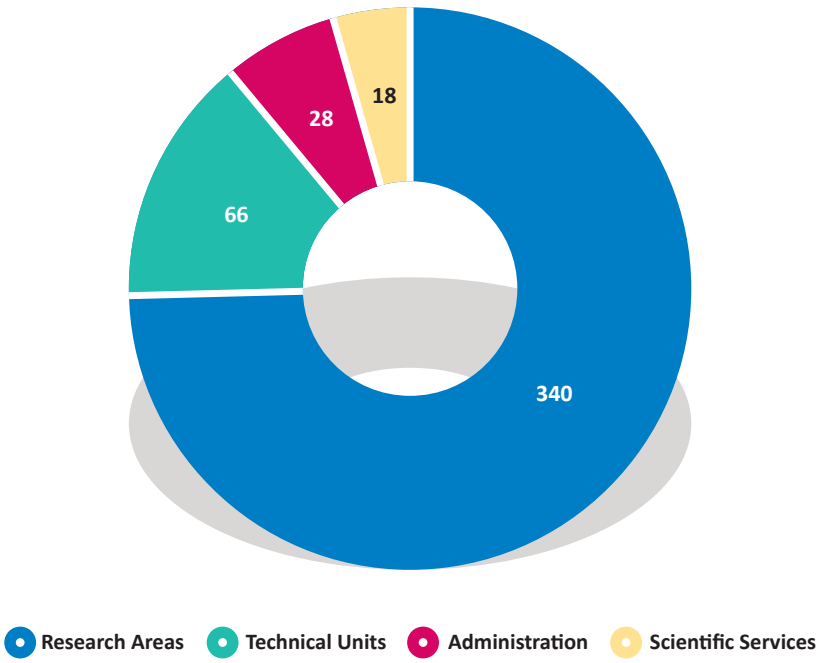
TITLE: "Vectores de expresión de proteínas: plásmidos pGEX-Calcineurina, pGEX-FKBP12 y pGEX-Ciclofilina A"
APPLICANT: CNIC
LICENSEE: PROTEIN ALTERNATIVES S.L.



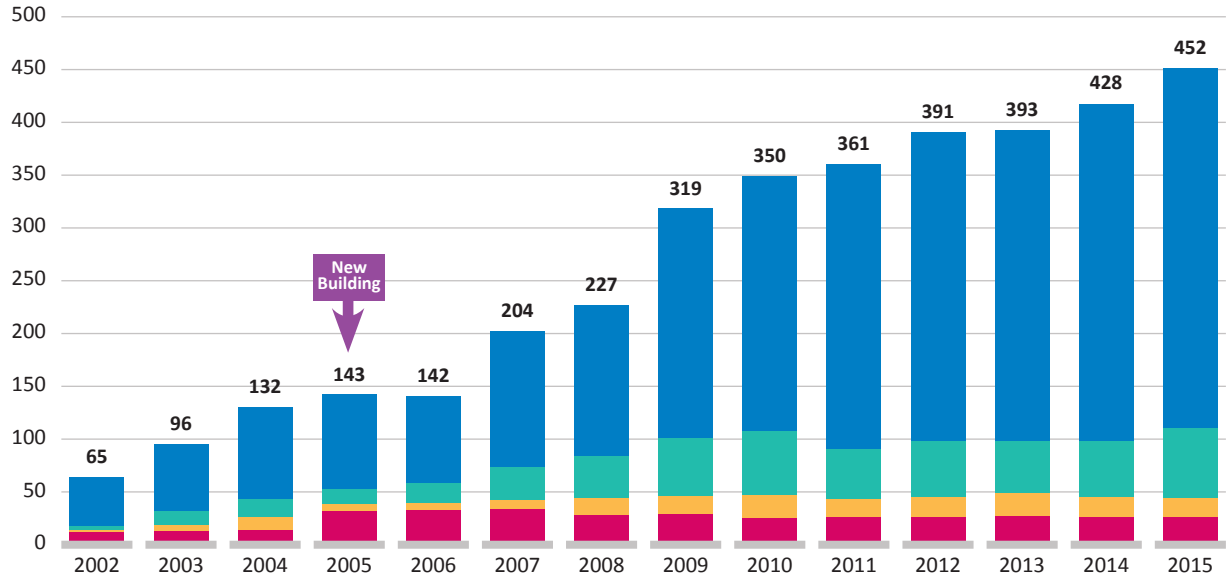
APPENDIX

Staff Figures

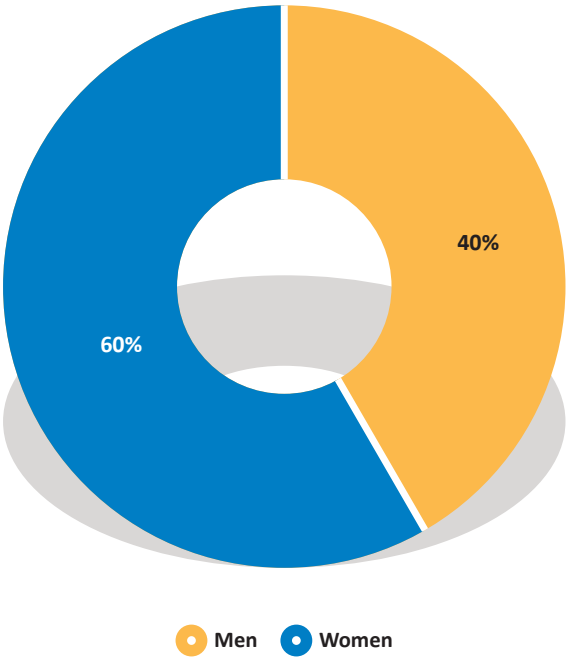
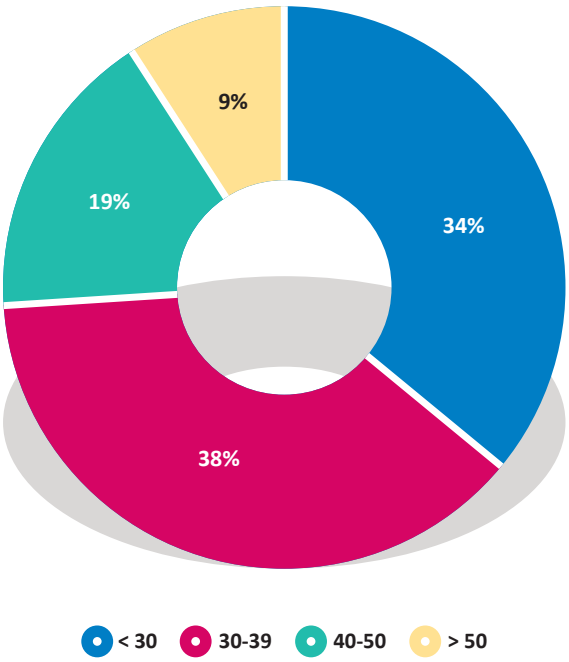
CNIC Staff 2015 (452)



Gradual growth current status



Gender Distribution 2015



CNIC Staff by age 2015 (452)