

In the 2017-2018 period, our centre hosted 98 undergraduate, 71 master's and 168 PhD students. 35 PhD students received competitive fellowships (e.g., INPhINIT, FPU, FPI) to perform their PhD theses at our institute, and 47 students obtained their PhD degree under the supervision of a CNB scientist.

We are making continuous efforts to attract young people who wish to pursue a scientific career. For instance, in summer 2017 and 2018, we organised the 5th and 6th edition of the "CNB course on introduction to research", providing undergraduate students first-hand experience in biotechnology research. In collaboration with the CSIC and funding from the Severo Ochoa Centres of Excellence Program, we offered fellowships to attract brilliant master's students, and our researchers showcased the centre's outstanding training opportunities through their participation in numerous university and master's degree programs.

Over the past two years, we have consolidated our PhD training program, launched in 2014 as part of the Severo Ochoa Centres of Excellence Program. The PhD Student's Committee, together with the Training Advisory Committee and with the invaluable help of our Science Communication and Outreach Office (Julia García) organised predoctoral scientific workshops, new PhD student's welcome events, as well as courses fostering public presentation skills or teaching how to write a scientific paper; and Lluís Montoliu spearheaded the implementation of an interactive workshop on ethics and integrity in research.

A rich program of seminars, conferences, workshops and courses, more than 300 in the 2017-2018 period, provide optimal opportunities for our researchers to keep up with the latest advances in biotechnology. Highlights from the past two years include workshops on plant systems biology (Pilar Cubas and Antonio Leyva) and genomic editing in bacteria (Laura Cueto and Miguel Vicente), the launch of the CNB Severo Ochoa "Challenges in Life Sciences" workshop series with the topic "Redefining disease" (Susanna Manrubia) and the organisation of a crash course on how to manage a biotech startup (Ana Sanz).

# Training

## **SCIENTIFIC ACTIVITIES COMMITTEE**

Juan Carlos Alonso  
Antonio Leyva  
Florencio Pazos  
Hugh T. Reyburn  
Juan José Sanz  
José María Valpuesta

## **TRAINING ADVISORY COMMITTEE**

Yolanda R. Carrasco  
Vicente Rubio  
Juan José Sanz  
Javier Tamames  
Mark Van Raaij  
Miguel Vicente

## **PhD STUDENTS COMMITTEE**

Alejandro Asensio  
Sara de Bernardo  
María Teresa Bueno  
Lorena Bragg  
Marcos Gragera  
Noelia de León  
Jesús Ogando  
Andrés Ortigosa  
Elena Sánchez  
Adriana Sanz  
Jesús Vallejo





## PhD fellowships

### **2 “LA CAIXA” PhD FELLOWSHIPS**

“LA CAIXA” FOUNDATION

Moisés Maestro López

Andrés Paris Muñoz

### **4 INTERNATIONAL INPHINIT FELLOWSHIPS**

“LA CAIXA” FOUNDATION

Lorena Bragg Gonzalo

César Omar Domínguez Márquez

Natalia González Mancha

David Strelak

### **5 FPU FELLOWSHIPS**

MINISTRY OF EDUCATION,  
CULTURE AND SPORT

Álvaro Ceballos Munuera

Ester Díaz Mora

Andoni Gómez Moreno

Pablo Laborda Martínez

Micaela Andrea Navarro  
Correa

### **24 FPI FELLOWSHIPS**

MINISTRY OF ECONOMY  
AND COMPETITIVENESS &  
MINISTRY OF ECONOMY,  
INDUSTRY AND  
COMPETITIVENESS

Guillermo Albericio Bonilla

Esther Cañibano Morejón

María del Pilar Fajardo Flores

Alberto Fernández Oliva

Alberto Fuster Pons

José Gallardo Hernanz

Raquel García Ferreras

Natalia García García

Guillermo Gómez García

Alfonso González de Prádena

Diego González Romero

Alberto Iniesta Saiz

Diego Esteban Jiménez Lalana

Aleksandra Lazarova

David López Escarpa

Bran López Luengo

Andrea Montero Atalaya

Javier Mota García

Lisette Ochoa Ibarrola

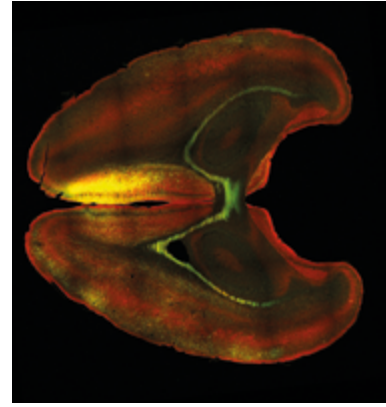
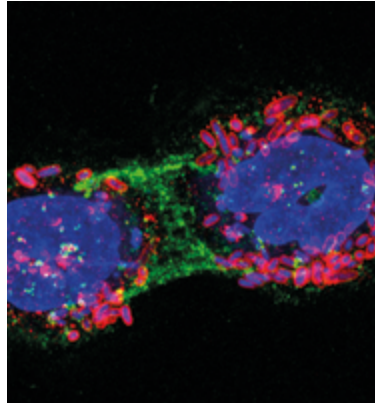
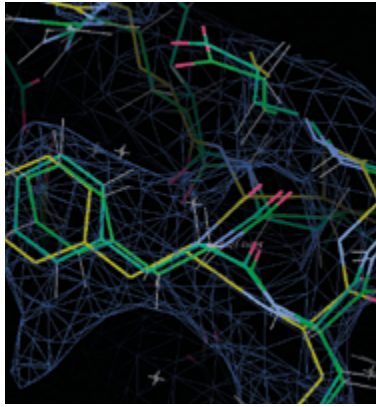
Cristina Ramos Andrades

Miriam Sánchez Ortega

Adrián Vega Pérez

Gonzalo Vígara Astillero

Pablo Yubero Bernabé



## Doctoral theses

In 2017 and 2018, 47 students obtained the PhD degree under the supervision of CNB researchers.

### 2017

#### **AMR ABDELMOTAGALY NASSRALLAH**

Target destabilization and chromatin remodelling are coordinated by CRL4-CDDD E3 ubiquitin ligases to repress photomorphogenesis in *Arabidopsis thaliana*.

(Vicente Rubio)

#### **MANUEL ALCALDE RICO**

Efecto de la sobre-exposición de los sistemas de bombeo múltiple de drogas, MexAB-OprM y MexCD-OprJ, sobre el sistema de señalización por quorum sensing de *Pseudomonas aeruginosa*.

(José Luis Martínez and Jorge A. Olivares)

#### **ELENA ANDRADA ROMERO**

Papel diferencial de las diacilglicerol quinasas alfa y zeta en el control de la respuesta T citotóxica: implicaciones para la inmunoterapia antitumoral.

(Isabel Mérida)

#### **LORENA CARMONA RODRÍGUEZ**

Función de la superóxido dismutasa extracelular (SOD3) en el endotelio tumoral. Implicaciones sobre la eficacia de la quimioterapia y la migración de linfocitos T.

(Santos Mañes and Emilia Mira)

#### **FERNANDO CORONA PAJARES**

Impacto del regulador global Crc en la fisiología de *Pseudomonas aeruginosa*.

(José Luis Martínez)

#### **EDUARD CRUZ ORÓ**

Control of potato tuberization by Gl and proteins of the FT family.

(Salomé Prat)

#### **LILIANA LILIBETH CUBAS GAONA**

Contribución del interferón a la citopatogenicidad causada por el virus de la bursitis infecciosa (IBDV).

(Dolores Rodríguez and Francisco Rodríguez)

#### **JOSÉ MIGUEL DE LA ROSA TREVÍN**

Scipion: a software framework toward integration, reproducibility and validation in 3D Electron Microscopy.

(Roberto Marabini and José María Carazo)

#### **JORGE DOMÍNGUEZ ANDRÉS**

Papel de los monocitos frente a infección sistémica por *Candida albicans*.

(Carlos Ardañín)

#### **ARAÍZ GALLO GALLARDO**

Conexiones entre la replicación del RNA, su empaquetamiento y la proteína HC en la infección de un potyvirus.

(Juan Antonio García and Adrián Valli)

#### **CARLOS GARCÍA BRIZ**

Control transcripcional de las redes neuronales en la corteza somatosensorial.

(Marta Nieto)

#### **YOVANNY IZQUIERDO NÚÑEZ**

La proteína NOXY7 de *Arabidopsis thaliana* regula la activación de la inmunidad y la adaptación a estrés a través de una ruta no canónica de control de síntesis de proteínas.

(Carmen Castresana)

#### **SHEILA LÓPEZ COBO**

Ligandos de NKG2D: nuevos aspectos sobre su bioquímica, su papel en interacciones celulares y su modulación por fármacos antitumorales.

(Mar Valés-Gómez)

#### **CÉSAR LÓPEZ PASTRANA**

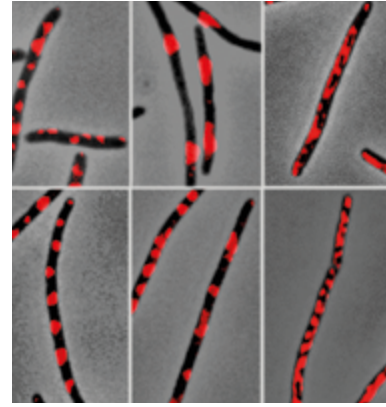
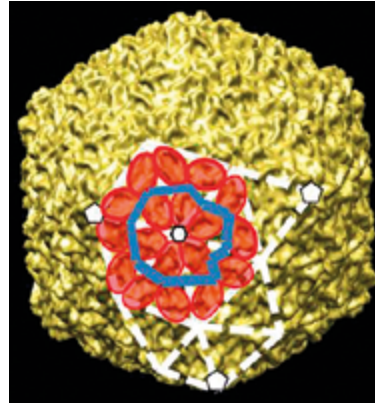
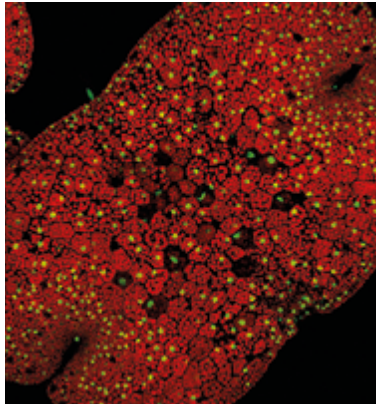
Magnetic Tweezers: Applications to the study of DNA-protein interactions in DNA-replication, condensation and segregation.

(Fernando Moreno-Herrero)

#### **ERNESTO MEJÍAS**

Vectores virales basados en poxvirus como agentes oncolíticos.

(Mariano Esteban)



**ISABEL MONTE GRONDONA**

Evolutionary divergence in the bioactive jasmonate in land plants.  
*(Roberto Solano)*

**MARÍA LUCÍA MORALES RODRÍGUEZ**

Contribución de RNAs no codificantes pequeños del hospedador y del virus a la patología pulmonar inflamatoria causada por el coronavirus del síndrome respiratorio agudo y grave.  
*(Luis Enjuanes and Isabel Sola)*

**CLARA MORENO FENOLL**

How genetic, social, and evolutionary interactions shape the many levels of biological complexity.  
*(Juan Poyatos)*

**PILAR MUÑOZ RUIZ**

Estudio de la penetración intratubular, áreas de vacío y la filtración bacteriana de un material biocerámico.  
*(José Luis Martínez and Rafael Cisneros)*

**LUCIA QUINTANA GALLARDO**

Structural insights into the chaperone-dependent ubiquitin/proteasome protein degradation pathway.  
*(José María Valpuesta and Jaime Martín-Benito)*

**GUILLERMO RAMÍREZ**

Descripción de la transfagocitosis, una vía para la captura de bacterias y la presentación antigénica por parte de los linfocitos T CD4+: posibles aplicaciones en biomedicina.  
*(Esteban Veiga and Aranzazu Cruz Adalia)*

**UMBERTO ROSATO**

Dissecting the role of Gadd45b in hepatocellular carcinoma development.  
*(Jesús Salvador)*

**ALBERTO SÁNCHEZ-PASCUALA JEREZ**

Deep refactoring of central carbon metabolism in the soil bacterium *Pseudomonas putida*.  
*(Victor de Lorenzo and Pablo Iván Nike)*

**RAHMAN SHOKRI**

p21 regulates IFN- $\gamma$  production and autoimmunity by controlling recurrent T cell activation.  
*(Dimitrios Balomenos)*

**MARÍA TELLO-LAFOZ**

Role of SNX27 in protein transport and lipid signaling in cell models of polarized trafficking.  
*(Isabel Mérida)*

**CLAUDIA VASALLO VEGA**

Estudio sistemático sobre las funciones celulares del Receptor Sigma-1: implicaciones para la infección por el virus de la hepatitis C.  
*(Pablo Gastaminza)*

**2018**

**ALFONSO BLÁZQUEZ MORENO**

Insights into the genetics and biochemistry of signaling adaptor modules and NK cell receptors from study of primary immunodeficiency.  
*(Hugh Reyburn)*

**CARLOS CASTAÑO RODRÍGUEZ**

Papel de las viroporinas E, 3a y 8a del coronavirus del SARS en replicación y virulencia.  
*(Luis Enjuanes)*

**SURESH CHITHATHUR RAMAN**

Enhancing B and T cell immune responses against the HIV-1 envelope using protein and poxvirus-based vaccines.  
*(Mariano Esteban)*

**RAMÓN CONTRERAS DE LUNA**

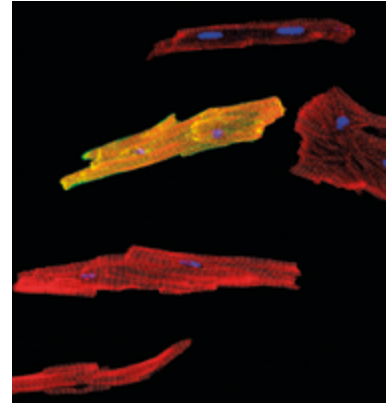
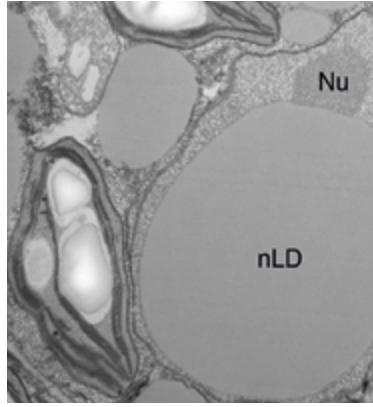
La partición núcleo/citoplásmica de IYO como interruptor binario de la diferenciación.  
*(Enrique Rojo and Maite Sanmartín)*

**LAURA CUETO BURDIEL**

The effects of the synthesis and localization of ZipA, an essential component of the *Escherichia coli* divisome, on division and membrane dynamics.  
*(Miguel Vicente)*

**LIDIA FEO LUCAS**

Estudio de los macrófagos alveolares durante las reacciones alérgicas.  
*(Carlos Ardavín and María López-Bravo)*



### RUBÉN FERNÁNDEZ SANTOS

Proteómica de cuerpos lipídicos en la senescencia y la infección por *Pseudomonas syringae* en *Arabidopsis thaliana*.

(Carmen Castresana)

### PATRICIA HERNÁNDEZ FLORES

Estudio de los efectos de la aplicación de un campo magnético alterno sobre células cargadas con nanopartículas magnéticas de óxido de hierro utilizando diferentes aproximaciones experimentales.

(Domingo F. Barber)

### DIEGO HERRERO ALONSO

Relevancia de los progenitores cardiacos Bmi1+ asociados a un nicho vascular con bajo estrés oxidativo.

(Antonio Bernad)

### GUILLERMO MARTÍN GUTIERREZ

Effect of urinary tract physiological conditions on quinolones and fosfomicin activity against *Escherichia coli*.

(Jesús Blázquez and Jerónimo Rodríguez)

### ADA MARTÍNEZ AYALA

Participación de las mitocondrias en la respuesta de defensa de *Arabidopsis thaliana* frente a la infección de microorganismos patógenos.

(Carmen Castresana and Yovanny Izquierdo)

### FERNANDO MÉNDEZ HERNÁNDEZ

Estudio de la función y localización de la proteína no estructural VP5 del virus de la bursitis infecciosa.

(Francisco Rodríguez Aguirre)

### FRIDA MESEL

microRNAs artificiales como fuente de resistencia antiviral y diversidad.

(Carmen Simón Mateo and Juan Antonio García)

### JESÚS OGANDO CASTRO

La regulación de la función efectora de macrófagos por miR-223 y de linfocitos T CD8+ por PD-1.

(Santos Mañes and Rosa Ana Lacalle)

### ANA ISABEL RODRÍGUEZ

Bases moleculares de la hiperrecombinación en cepas patógenas de *Escherichia coli*.

(Jesús Blázquez and Jerónimo Rodríguez)

### HECTOR ROMERO GONZÁLEZ

Single-molecule dynamics in protein interactions: characterization of RarA and RecD2 of *Bacillus subtilis*.

(Juan Carlos Alonso and Peter Graumann)

### GUILLERMO RUANO BLANCO

Caracterización funcional de las proteínas MTV9 y MTV11 y su implicación en el tráfico vacuolar.

(Enrique Rojo and Jan Zouhar)

### DIONE SÁNCHEZ HEVIA

Estudio de los regulones de las proteínas Hfq y Crc de *Pseudomonas putida*, y de la expresión del ARN pequeño CrcZ que controla la actividad de estas proteínas.

(Fernando Rojo and Renata Moreno)

### ESTER SERRANO ÁLVAREZ

*Bacillus subtilis* RecA accessory proteins at the stage of homology search during natural transformation.

(Juan Carlos Alonso and Begoña Carrasco)

### HONGYING SHAN

Characterization of P1 leader proteases of the *Potyvirus* family and identification of the host factors involved in their proteolytic activity during viral infection.

(Juan Antonio García and Bernardo Rodamilans)

### JESÚS VALLEJO DÍAZ

Papel de la proteína p85β en el cáncer de células escamosas de pulmón.

(Ana Clara Carrera)



# JUNIOR SEMINARS

## XI CNB JUNIOR SEMINAR SERIES 2017/2018

- NOVEMBER 17 **Patricia Ossevoijer**  
Delft University of Technology, The Netherlands
- DECEMBER 1 **Nathalie Leonhardt**  
Institut de Biologie et Biotechnologie de Neuchâtel (IBB), France
- JANUARY 19 **Rudi W. Hendriks**  
Erasmus MC, Rotterdam, The Netherlands
- FEBRUARY 2 **Gijs J. L. Wuite**  
Tijl University Institute, The Netherlands
- APRIL 20 **Veronica Grienselen**  
John Innes Centre, Norwich, UK
- MAY 4 **Paula da Fonseca**  
IRAC Laboratory of Molecular Biology, Cambridge, UK
- MAY 21 **Caroline Gutzler**  
Lehrstuhl für Biochemie, München, Germany
- JUNE 15 **Karla Krieger**  
Stanford University School of Medicine, USA

11.00h  
CONFERENCE ROOM  
Centro Nacional  
de Biotecnología  
www.cnb.csic.es  
11.00h

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de Biotecnología



# SEMINARS

## XXII CNB SEMINAR SERIES 2017/2018

- SEPTEMBER 29 **Fernando Martín**  
IBIMA Neurosciences, LMU, Munich, Spain
- NOVEMBER 3 **Álvaro Hierro**  
OCINGUNE, Burgos, Spain
- FEBRUARY 9 **Eduard Batlle**  
IBB Barcelona, Barcelona, Spain
- FEBRUARY 16 **Carlos Úbeda Morant**  
FIBRO, Valencia, Spain
- MARCH 16 **Friedrich Foerster**  
Spinoz Center for Biomolecular Research, Utrecht University, The Netherlands
- MARCH 23 **Luca Guidotti**  
Ospedale San Raffaele, Milan, Italy
- APRIL 27 **Florian Creten**  
Institut für Tumor Biologie und Experimentelle Medizin, Frankfurt, Germany
- MAY 18 **Ian Rosenblum**  
The Hebrew University of Jerusalem, Israel
- JUNE 1 **Bernard Malissen**  
Centre d'Immunologie de Marseille-Luminy, Marseille, France
- JUNE 2 **Isabel Alena Alberich**  
CNB UPV/EHU, Madrid, Spain
- JUNE 22 **Manuel Rodríguez Concepción**  
CNB CICGTA-LIM-08, Barcelona, Spain

11.00h  
CONFERENCE ROOM  
Centro Nacional  
de Biotecnología  
www.cnb.csic.es  
11.00h

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# JUNIOR SEMINARS

## XII CNB JUNIOR SEMINAR SERIES 2018/2019

- SEPTEMBER 20 **Francesco Pedaci**  
Principal Investigator, Centre de Biochimie Structurale de Montpellier, France
- OCTOBER 20 **Moussa Benhamad**  
Institute of Plant Science Paris-Saclay, France
- NOVEMBER 15 **Ulrich Krayer**  
University of Cambridge, UK
- NOVEMBER 23 **Karla Krieger**  
Stanford University, USA
- JANUARY 11 **Tom Bennett**  
University of Leeds, UK
- FEBRUARY 8 **Arjen Jakobi**  
Kort Institute Delft, The Netherlands
- FEBRUARY 22 **Mariana Gomes de Pinho**  
Principal Investigator, Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Portugal
- MARCH 9 **Magdalena Zornicka-Goetz**  
University of Cambridge, UK
- MARCH 15 **Benedikt Beringer**  
King's College London, UK
- MAY 19 **Benjamin D. Towbin**  
Fraunhofer Institute for Biomedical Research, Basel, Switzerland
- JUNE 14 **Jan Lemmerling**  
Wolf Institute for Cell and Molecular Biology, Cornell University, USA

11.00h  
CONFERENCE ROOM  
Centro Nacional  
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11.00h

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# SEMINARS

## XXIII CNB SEMINAR SERIES 2018/2019

- SEPTEMBER 20 **Richard Henderson**  
Laboratory of Molecular Biology, Cambridge, UK, Nobel Prize in Chemistry 2017
- NOVEMBER 30 **Maria Antonia Llamas**  
Environ-Experimental IM-Zoelln, Granada, Spain
- FEBRUARY 1 **Nick Blackburn**  
Scripps Aps, Virginia, England
- MARCH 1 **Manuel Tatin**  
Director, Centre de Genética, IMB, Marseille, Valencia, Spain
- MARCH 20 **Dietmar Rausner**  
Director, Max Planck Institute of Molecular Physiology Dortmund, Germany
- MARCH 20 **Mike Skinner**  
Imperial College London, UK
- APRIL 5 **Diarmuid Hughes**  
Uppsala University, Sweden
- APRIL 12 **Malcolm Bennett**  
School of Biosciences, Division of Plant Sciences, University of Nottingham, UK
- APRIL 20 **Lytia Sorokin**  
Institute of Physiological Chemistry and Pathobiochemistry, University of Würzburg, Germany
- MAY 17 **Jochen Schwenk**  
School of Biotechnology, ETH Zurich Institute of Technology, Switzerland, Sweden
- MAY 24 **Roberto Chiarle**  
Bovoni Children Hospital, Harvard Medical School, USA

11.00h  
CONFERENCE ROOM  
Centro Nacional  
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11.00h

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## Scientific meetings and courses

In 2017 and 2018, the CNB hosted 246 seminars, including talks by 41 speakers from internationally renowned institutions who presented their latest findings in the CNB Seminar Series and the CNB Junior Seminar Series.

Furthermore, CNB scientists participated in the organisation of more than 100 conferences, workshops and courses.

### 2017

#### 14 JANUARY 2017

AUSTIN, USA

DABE pre-conference symposium at the 43 annual conference of the IETS

*Lluís Montoliu*

#### 16 JANUARY 2017 (CNB)

V Colloquium of the systems and synthetic biology program on multi-scale biological design

*Víctor de Lorenzo*

#### 24-27 JANUARY 2017

SANTIAGO DE CHILE, CHILE

Workshop “Análisis estructural de proteínas y complejos macromoleculares mediante técnicas de microscopía electrónica y procesamiento de imagen”

*José María Valpuesta*

#### 27 FEBRUARY - 2 MARCH 2017

BADALONA, SPAIN

GEIVEX/REDIEX workshop on isolation and characterization of extracellular vesicles obtained from different biological fluids

*Mar Valés-Gómez*

#### 27-28 MARCH 2017 (CNB)

Madrid meeting on dendritic cells and macrophages 2017

*Carlos Ardavín*

#### 3-7 APRIL 2017

PRAGUE, CZECH REPUBLIC

2nd Programmable nucleases (CRISPR/Cas9) transgenesis course

*Lluís Montoliu*

#### 7 APRIL 2017 (CNB)

Workshop mycobacterium: molecular microbiology

*Susanne Gola and Miguel Vicente*

#### 5 MAY 2017 (CNB)

25th Anniversary scientific meeting

*Fernando Rojo, Mario Mellado and Julia García*

#### 2 JUNE 2017 (CNB)

Technical workshop

*Noelia Sofia de Leon*

#### 9 JUNE 2017 (CNB)

II Workshop by CNB PhD students

*CNB PhD Students Junior Committee and Julia García*

#### 12-16 JUNE 2018 (CNB)

VII Curso de proteómica cuantitativa

*Alberto Paradela*

#### 3-28 JULY 2018 (CNB)

V Curso de introducción a la investigación

*Julia García*

#### 10 JULY 2017 (CNB)

NanoBIOSOME: design, development and production of nanocontainers and nanovehicles

*José María Valpuesta*

#### 11 JULY 2017 (CNB)

CIBERER practical course on CRISPR genome-editing techniques in human rare diseases

*Lluís Montoliu*

#### 31 AUGUST - 1 SEPTEMBER 2017 (CNB)

EUSynBioS symposium 2017: engineering biology for a better future

*Huseyin Tas*

#### 3-6 SEPTEMBER 2017

VALENCIA, SPAIN

XIV Solanaceae and III cucurbitaceae genomics joint conference

*Pilar Cubas*





**4-8 SEPTEMBER 2017**

LYON, FRANCE

Workshop on living architectures. 14th European conference on artificial life 2017

*Juan Nogales*

**6-9 SEPTEMBER 2017**

CARDIFF, UNITED KINGDOM

2nd European chemokine and cell migration conference

*Mario Mellado*

**10-14 SEPTEMBER 2017**

JERUSALEM, ISRAEL

Symposium "Molecular machines in action" at the 42nd FEBS congress

*José María Valpuesta*

**17 SEPTEMBER 2017**

DUBLIN, IRELAND

Human Proteome Project - principal investigator's meeting

*Fernando Corrales*

**22 SEPTEMBER 2017 (CNB)**

CNB Severo Ochoa workshop series "Challenges in life sciences"

*Susanna Manrubia*

**22-24 SEPTEMBER 2017**

TERUEL, ESPAÑA

XI Jornadas ALBA sobre albinismo

*Lluís Montoliu*

**24 SEPTEMBER - 1 OCTOBER 2017**

HEIDELBERG, GERMANY

EMBO practical course synthetic biology in action: programming bacteria to do amazing things

*Víctor de Lorenzo*

**1-4 OCTOBER 2017**

SALT LAKE CITY, USA

14th Transgenic technology meeting

*Lluís Montoliu*

**5-6 OCTOBER 2017**

BARCELONA, SPAIN

2nd Meeting of the Spanish adenovirus network

*Carmen San Martín*

**5-6 OCTOBER 2017 (CNB)**

2nd Meeting of the B cell network (Net-B)

*Yolanda Carrasco and Ignacio Moreno de Alborán*

**9-10 OCTOBER 2017**

SEGOVIA, SPAIN

Workshop on systems biology 2017

*Jacobo Aguirre*

**22-26 OCTOBER 2017**

AWAJI CITY, JAPAN

20th International congress on "Calcium-binding proteins and calcium function in health and disease"

*José R. Naranjo*

**23 OCTOBER 2017**

BARCELONA, SPAIN

2nd Emerging scientist workshop at the XL SEBBM congress

*Fernando Moreno*

**23-26 OCTOBER 2017**

LA LAGUNA, SPAIN

Workshop on annotation of transporters

*Javier Tamames*

**24-27 OCTOBER 2017**

GIJÓN, SPAIN

Joint SEBD/SEG/SEBC congress 2017

*Pilar Cubas*

**27 OCTOBER 2017 (CNB)**

25th Anniversary scientific meeting

*Fernando Rojo, Mario Mellado and Julia García*

**30 OCTOBER - 1 NOVEMBER 2017**

MOSCOW, RUSSIA

Clinical proteomics - postgenome medicine

*Fernando Corrales*

**13 NOVEMBER 2017**

PARIS, FRANCE

Fostering responsible research with CRISPR-Cas9

*Lluís Montoliu*

**13-15 NOVEMBER 2017**

DERIO, SPAIN

GEIVEX/REDIEX workshop on bioinformatics tools to study exosomes' effects

*Mar Valés-Gómez*

**28-29 NOVEMBER 2017**

BILBAO, SPAIN

VIII Reunión científica de proteómica clínica

*Fernando Corrales*



**18 DECEMBER 2017 (CNB)**

XXV CNB Scientific workshop  
*Julia García*

**20 DECEMBER 2017 (CNB)**

XXV Workshop Advances in Molecular Biology by Young Researchers Abroad  
*Domingo F. Barber, Mar Valés-Gómez and Julia García*

**2018**

**17-19 JANUARY 2018 (CNB)**

Instruct course on image processing for electron microscopy in the cloud  
*José María Carazo*

**19 JANUARY 2018**

MADRID, SPAIN  
VIII Jornada científica de la Sociedad de Inmunología de la Comunidad de Madrid (SICAM)  
*Yolanda R. Carrasco*

**25-26 JANUARY 2018**

MADRID, SPAIN  
International Symposium: applications of gene editing on research and therapy of human rare diseases  
*Lluís Montoliu*

**14-20 FEBRUARY 2018 (CNB)**

Theoretical-practical workshop on plant systems biology  
*Pilar Cubas and Antonio Leyva*

**7-10 MARCH 2018**

OSLO, NORWAY  
4EDA: 4th European days of albinism  
*Lluís Montoliu*

**22-23 MARCH 2018**

PARIS, FRANCE  
ARRIGE kick-off meeting  
*Lluís Montoliu*

**5 APRIL 2018 (CNB)**

FELASA workshop on the severity classification and reporting under EU directive 2010/63/EU  
*Belén Pintado*

**6-7 APRIL 2018**

SAN ILDEFONSO, SPAIN  
3rd Retreat of the European Academy of Microbiology  
*Laura Cueto and Miguel Vicente*

**13 APRIL 2018 (CNB)**

CNB workshop: genomic editing in bacteria  
*Laura Cueto and Miguel Vicente*

**16-20 APRIL 2018**

PRAGUE, CZECH REPUBLIC  
3rd Programmable nucleases (CRISPR/Cas9) transgenesis course  
*Lluís Montoliu*

**9 MAY 2018 (CNB)**

Ciencia, periodismo y sociedad  
*Julia García*

**21 MAY 2018 (CNB)**

Fascinados por las plantas: botánicos y artistas en las expediciones españolas del siglo XVIII  
*Julia García*

**4-6 JUNE 2018**

MADRID, SPAIN  
15th Experimental chaos and complexity conference  
*Jacobo Aguirre*

**11 JUNE 2018 (CNB)**

III Workshop by CNB PhD students  
CNB  
*CNB PhD Students Junior Committee and Julia García*

**11-15 JUNE 2018 (CNB)**

VIII Curso de proteómica cuantitativa  
*Alberto Paradela*

**16-17 JUNE 2018**

SANTIAGO DE COMPOSTELA, SPAIN  
19th C-HPP symposium  
*Fernando Corrales*

**16-20 JUNE 2018**

SANTIAGO DE COMPOSTELA, SPAIN  
XII EuPA congress  
*Fernando Corrales*

**26-27 JUNE 2018 (CNB)**

2nd I2PC cryoEM facilities meeting  
*José María Carazo*

**18 JUNE 2018**

SANT FELIU DE GUIXOLS, SPAIN  
3rd RedDevNeural annual meeting  
*Marta Nieto*



**27-29 JUNE 2018 (CNB)**

Instruct – I2PC- FEI: facility-based image processing for electron microscopy

*José María Carazo*

**2-27 JULY 2018 (CNB)**

VI Curso de introducción a la investigación

*Julia García*

**4-6 JULY 2018**

SALAMANCA, SPAIN

XIV Reunión de Biología Molecular de Plantas

*Pilar Cubas*

**9 JULY 2018 (CNB)**

Workshop on ethics and integrity in research

*Lluís Montoliu*

**10-12 JULY 2018**

GIF-SUR-YVETTE, FRANCE

CNRS-CSIC workshop “Microbial adaptation to environmental stresses”

*Francisco García del Portillo*

**12-13 JULY 2018 (CNB)**

NanoBIOSOME: design, development and production of nanocontainers and nanovehicles

*José María Valpuesta*

**10 SEPTEMBER 2018**

SANTANDER, SPAIN

3rd Emerging scientist workshop at the XLI SEBBM congress

*Fernando Moreno-Herrero*

**26-29 SEPTEMBER 2018**

CUERNAVACA, MEXICO

13th International adenovirus meeting

*Carmen San Martín*

**28-29 SEPTEMBER 2018**

SEGOVIA, SPAIN

XII Jornadas ALBA sobre albinismo “rompiendo mitos”

*Lluís Montoliu*

**30 SEPTEMBER 2018**

ORLANDO, USA

Human Proteome Project - principal investigator’s meeting

*Fernando Corrales*

**9-12 OCTOBER 2018**

ALBI, FRANCE

SFEAP 2018 congress

*Fernando Corrales*

**15-17 OCTOBER 2018**

BAEZA, SPAIN

UNIA Workshop “Current trends in biomedicine - the cell biology behind the oncogenic PI3K lipids”

*Ana Clara Carrera*

**17-18 OCTOBER 2018**

MADRID, SPAIN

IX Reunión científica de proteómica clínica

*Fernando Corrales*

**18 OCTOBER 2018 (CNB)**

CIBERER workshop on working group on genome editing and gene therapy

*Lluís Montoliu*

**26 OCTOBER 2018**

MADRID, SPAIN

Evaluating a combination of immune-based therapies to achieve a functional cure of HIV infection (HIVACAR)

*Mariano Esteban*

**26-28 OCTOBER 2018**

SHANGHAI, CHINA

VI ICGEB Workshop on human RNA viruses

*Luis Enjuanes*

**12 NOVEMBER 2018**

HANGZHOU, CHINA

International symposium on root development and nutrients/water absorption

*Javier Paz-Ares*

**3-4 DECEMBER 2018**

MUNICH, GERMANY

INFRAFRONTIER / IMPC stakeholder meeting 2018 - advancing rare disease research and gene therapy applications with animal models

*Lluís Montoliu*

**13 DECEMBER 2018 (CNB)**

II Reunión científica Immunothercan

*Santos Mañes*

**17-19 DECEMBER 2018 (CNB)**

XXVI CNB Scientific workshop

*Susana de Lucas*

**21 DECEMBER 2018 (CNB)**

XXVI Workshop Advances in Molecular Biology by Young Researchers Abroad

*Domingo F. Barber, Mar Valés-Gómez and Susana de Lucas*



