

Sponsors



Organizers

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Collaborators

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Marta Nieto Juan Poyatos Carmen San Martín



XXII WORKSHOP
AVANCES
EN BIOLOGÍA MOLECULAR
POR JÓVENES INVESTIGADORES
EN EL EXTRANJERO

22 DECEMBER 2014

Salón de Actos del Centro Nacional de Biotecnología

9:30 Isabel Mérida, CNB Vicedirector: Welcome and presentation

STRUCTURAL BIOLOGY

Salón de Actos

(chair: Carmen San Martín)

9:45 Rubén Fernández-Busnadiego (ruben@biochem.mpg.de)
Three dimensional architecture of Extended-Synaptotagmin-mediated ER-plasma membrane contact sites

Principal Investigator: Pietro De Camilli, Yale School of Medicine (USA)

10:05 Judit Perales-Calvo (judit.perales-calvo@kcl.ac.uk)
Mechanical properties of the DnaJ chaperone revealed by Single Molecule Force Spectroscopy

Principal Investigator: Sergi Garcia-Manyes, King's College London (UK)

10:25 Beatriz Herguedas (hergueda@mrc-lmb.cam.ac.uk)
Structure, assembly and organization of heteromeric AMPA glutamate receptors

Principal Investigator: Ingo Greger, MRC Laboratory of Molecular Biology, Cambridge (UK)

10:45 Inmaculada Pérez (j.perez-dorado@imperial.ac.uk)
Transport of cargo proteins out of the endosome via VARP and melanosome biogenesis

Principal Investigator: Phil Evans, MRC Laboratory of Molecular Biology, Cambridge (UK)

11:05 Juan A. Bueren Calabuig (jabuerencalabuig@dundee.ac.uk)
Ligand-dependent modulation of disorder-order transitions in the oncoprotein MDM2. A computational approach

Principal Investigator: Julien Michel, University of Edinburgh (UK)

(11:25 Coffee break)

CELL BIOLOGY & SIGNALLING

Room B.6

(chair: Inés Antón)

9:45 Miguel Sánchez Álvarez (msanchezalvarez@icr.ac.uk)
The PERK/EIF2AK3 kinase regulates and coordinates the dynamics of endoplasmic reticulum and the microtubule networks

Principal Investigator: Chris Bakal, Institute of Cancer Research, London (UK)

10:05 Luisa García-Haro (luigarha@hotmail.com)
Role of BAD in hepatic energy metabolism

Principal Investigator: Nika Danial, Dana Farber Cancer Institute- Harvard Medical School (USA)

10:25 Santiago Vernía (santiago.vernia@gmail.com)
The PPAR α -FGF21 hormone axis contributes to metabolic regulation by the hepatic JNK signaling pathway

Principal Investigator: Roger J. Davis, University of Massachusetts (USA)

10:45 Asier Jayo (asier.jayo@kcl.ac.uk)
A new role of fascin in the regulation of nuclear localisation and morphology

Principal Investigator: Maddy Parsons, King's College London (UK)

11:05 Alfredo Giménez-Cassina (alfredo.gimenez-cassina@ki.se)
Metabolic control of neuronal excitability

Principal Investigator: Nika N. Danial, Dana-Farber Cancer Institute-Harvard Medical School (USA)

(11:25 Coffee break)

STRUCTURAL BIOLOGY / ONCOLOGY & IMMUNOLOGY

Salón de Actos (chairs: Carmen San Martín and Yolanda R. Carrasco)

11:55 Marta López Peláez (m.lopezpelaiez@dundee.ac.uk)
How the master transcription factor IRF5 is activated to trigger cytokine production
Principal Investigator: Philip Cohen, University of Dundee (UK)

12:15 Carlos López-García (Carlos.Garcia@cancer.org.uk)
The landscape of somatic mutations in aneuploid colorectal cancer
Principal Investigator: Charles Swanton, Cancer Research UK, London Reserach Institute (UK)

12:35 Enrique Martín-Gayo (egayo@mgh.harvard.edu)
Cell-intrinsic responses in conventional dendritic cells contribute to spontaneous immune control of HIV-1 infection
Principal Investigator: Xu Yu, M.D. Ragon Institute of MGH, MIT and Harvard, Boston (USA)

12:55 Iria Medrano Fernández (medranofernandez.iria@hsr.it)
Stress-induced regulation of H₂O₂ transport in cells
Principal Investigator: Roberto Sitia, IRCCS Ospedale San Raffaele (Italy)

13:15 Nerea Irigoyen (ni236@cam.ac.uk)
Society of Spanish Researchers in the United Kingdom

(13:35 Lunch)

CELL BIOLOGY & SIGNALLING

Room B.6 (chair: Inés Antón and Andrea Chini)

11:55 Francesc Guix (Francesc.Guix@cme.vib-kuleuven.be)
The study of the role of Tetraspanin-6 in Alzheimer's disease
Principal Investigator: Bart De Strooper, VIB-KU Leuven (Belgium)

12:15 Francisco Verdeguer (Francisco_Verdeguer@dfci.harvard.edu)
Defective mitochondrial morphology and bioenergetic function in mice lacking the transcription factor Yin Yang 1 in skeletal muscle
Principal Investigator: Pere Puigserver, Dana Farber Cancer Institute/Harvard Medical School (USA)

12:35 Adrián Valli (aav30@cam.ac.uk)
Evolution of the miRNA-mediated RNA silencing pathway: the plant that wanted to be an animal
Principal Investigator: David Baulcombe, University of Cambridge (UK)

12:55 Cristina Casao (casao@mpipz.mpg.de)
The evening complex in Barley
Principal Investigator: Maria von Korff, Max Planck, Department of Plant Developmental Biology (Germany)

13:15 Irene María Serrano (iserrano@indiana.edu)
The *Arabidopsis* EDR1 protein kinase negatively regulates the ATL1 E3 ubiquitin ligase to suppress cell death
Principal Investigator: Roger Innes, Indiana University (USA)

(13:35 Lunch)

VIROLOGY

Salón de Actos

(chair: Fernando Almazán)

14:35 Patricia Resa Infante (patriciaresainfante@gmail.com)
Targeting importin- $\alpha 7$ as an antiviral approach against pandemic influenza viruses
Principal Investigator: Gülsah Gabriel, Leibniz Institute for Experimental Virology, Hamburg (Germany)

14:55 Armando Arias (aaesteban2@gmail.com)
Favipiravir elicits antiviral mutagenesis during virus replication *in vivo*
Principal Investigator: Ian Goodfellow, University of Cambridge (UK)

15:15 María Dueñas Decamp (MariaJose.DuenasDecamp@umassmed.edu)
Determinants of HIV-1 tropism and neutralization. An approach to learn about envelope structure
Principal Investigator: Paul Clapham, UMASS Medical School, Worcester, MA (USA)

15:35 Nerea Irigoyen (ni236@cam.ac.uk)
Translational control of virus gene expression by ribosome profiling: a coronavirus story
Principal Investigator: Ian Brierley, Division of Virology, University of Cambridge (UK)

(15:55 Coffee break)**DEVELOPMENT & NEUROBIOLOGY / SYSTEMS BIOLOGY**

Room B.6

(chairs: Marta Nieto and Florencio Pazos)

14:35 Beatriz Gómez Perez-Nievas (bgomezpe@gmail.com)
Dissecting phenotypic traits linked to human resilience to Alzheimer's pathology
Principal Investigator: Teresa Gómez-Isla, MassGeneral Institute for Neurodegenerative Diseases (USA)

14:55 Alfonso Saera-Vila (alfonsosaera@gmail.com)
Zebrafish Extraocular Muscle Repair After Injury - A New Model of Adult Tissue Regeneration
Principal Investigator: Alon Kahana, Kellogg Eye Center, University of Michigan (USA)

15:15 Diego Villar (diego.villarozano@cruk.cam.ac.uk)
Enhancer evolution in 20 Mammals
Principal Investigator: Duncan T. Odom, Cancer Research UK and University of Cambridge (UK)

15:35 Nacho Molina (nacho.molina@ed.ac.uk)
Stochasticity and negative feedback lead to oscillations and distinct gene activity patterns
Principal Investigator: Nacho Molina, SynthSys Centre, University of Edinburgh (UK)

(15:55 Coffee break)

16:25

Round table discussion about new funding opportunities of I+D+i

(chair: Carmen Castresana, CNB Director)

Salón de Actos

Federico Mayor Zaragoza

Presidente del Consejo Científico de la Fundación Ramón Areces

Inés Antón

Fundación Apadrina la Ciencia

María Sanz Vicente

Subdirectora de la Fundación General CSIC

Ana Fernández-Zubieta

Vórticex: crowdfunding and crowdsourcing en I+D+i