

XXV Workshop

Advances in Molecular Biology

by young researchers abroad

December 20, 2017
CNB-CSIC

Organizadores

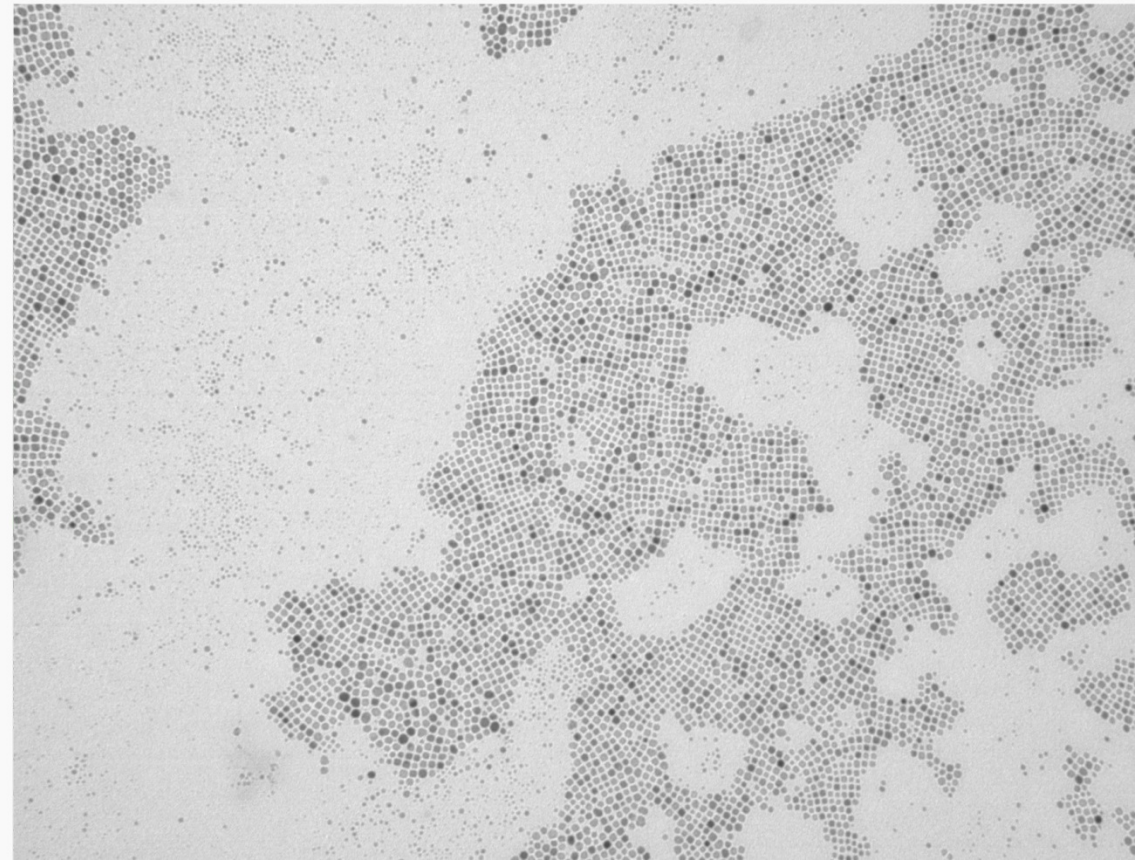
Domingo F. Barber
Mar Valés-Gómez
Julia García López

Colaboradores

Carmen San Martín
Sylvia Ayora
Andrea Chini
Inés Antón
Urtzi Garaigorta
Juan Poyatos
Pablo Gastaminza
Sandra Fonseca



Patrocinadores:



9:15 Welcome and presentation: Mario Mellado, CNB vice director

MOLECULAR & CELLULAR BIOLOGY

Conference Room

(Chair: Pablo Gastaminza & Inés Antón)

- 9:30** Evolution of nervous system
Hernando Martínez Vergara (hernybiotec@gmail.com)
Principal Investigator: Detlev Arendt. EMBL (Germany)
- 9:50** LINC complex regulation by torsinA is required for apical organization and controlled proliferation of neural progenitor cells
Beatriz Dominguez Gonzalez (beatriz.gonzalez@kuleuven.vib.be)
Principal Investigator: Rose Goodchild. VIB & KU Leuven Center for Brain & Disease Research (Belgium)
- 10:10** How to make a photoreceptor outer segment in three steps
Antonio Escudero Paniagua (paniagua@ucla.edu)
Principal Investigator: David S. Williams, Jules Stein Eye Institute, University of California Los Angeles (USA)
- 10:30** Polycomb targeting through evolutionary conserved DNA sequences
Juan Ignacio Barrasa López (juan.barrasa@umu.se)
Principal Investigator: Yuri B. Schwartz. Umeå University (Sweden)

PLANT MOLECULAR BIOLOGY

Room B.6

(Chair: Andrea Chini)

- 9:30** DNAJ proteins and chloroplast protein quality control
Pablo Pulido (Pablo.Pulido@biologie.uni-muenchen.de)
Principal Investigator: Dario Leister. Munich Research Center (Germany)
- 09:50** Structural insights of NF-Y in plants
Antonio Chaves-Sanjuan (antonio.chaves@unimi.it)
Principal Investigator: Marco Nardini. University of Milano (Italy)
- 10:10** GRIK1 and GRIK2 kinases regulate the SOS pathway
Juan Barajas Lopez (jddbar@utu.fi)
Principal Investigator: Hiroaki Fujii. University of Turku (Finland)
- 10:30** HAC1: A new arsenate reductase in plants with root-tissue specific activity in *Arabidopsis*
Eduardo Sanchez Bermejo (Eduardo.Sanchez-Bermejo@nottingham.ac.uk)
Principal Investigator: David Salt. Nottingham University (UK)

10:50

CNB hall

Coffee break + Networking session

MOLECULAR & CELLULAR BIOLOGY / IMMUNOLOGY & ONCOLOGY

Conference Room

(Chair: Inés Antón & Mar Valés)

- 11:40** Chemogenomic screen for regulators of axonal transport of mitochondria
Evgeny Shlevkov (evgeny.shlevkov@childrens.harvard.edu)
Principal Investigator: Thomas L. Schwarz. Boston Children's Hospital and Harvard Medical School (USA)
- 12:00** Understanding the placenta in ageing and disease
Vicente Pérez García (vicente.perez-garcia@babraham.ac.uk)
Principal Investigator: Myriam Hemberger. The Babraham Institute, Cambridge (UK)
- 12:20** Diminished apoptotic priming and ATM signalling underlies increased survival of aged haematopoietic stem cells in response to DNA damage
Paula Gutierrez-Martinez (gutierrezmartinezp@gmail.com)
Principal Investigator: Derrick J Rossi. Harvard Medical School (USA)
- 12:40** Illuminating Pathogenicity of BRCA2 Variants of Uncertain Significance (VUS): R3025W.
Judit Jimenez Sainz (judit.jimenezsainz@yale.edu)
Principal Investigator Ryan B. Jensen. Yale Medical School (USA)

PLANT MOLECULAR BIOLOGY

Room B.6

(Chair: Sandra Fonseca)

- 11:40** Dissecting plant responses to hormones: from fruit ripening to root development
Javier Brumos Fuentes (jbrumos@ncsu.edu)
Principal Investigator Jose Alonso. North Carolina University (USA)
- 12:00** SUMO in stress response: an ace up our sleeve
Beatriz Orosa (beatriz.rosa@durham.ac.uk)
Principal Investigator: Ari Sadanandom. Durham University, (UK)
- 12:20** Targeted manipulation of DNA methylation in plants
Javier Gallego (jagalbar@ucla.edu)
Principal Investigator: Steve Jacobsen. University of California Los Angeles (USA)

13:00

Lunch

STRUCTURAL BIOLOGY / MICROBIOLOGY

Conference Room

(Chair: Carmen San Martín & Silvia Ayora)

- 14:10** A Hub for 3'-end processing: Structural insights into mRNA polyadenylation
Ana Casañal (acasanal@mrc-lmb.cam.ac.uk)
 Principal Investigator: Lori Passmore. MRC-Laboratory of Molecular Biology (UK)
- 14:30** Maintenance of bacterial outer membrane lipid asymmetry
Javier Abellón-Ruiz (javierabellon@um.es)
 Principal Investigator: Bert van den Berg. Institute for Cell and Molecular Biosciences, Newcastle University (UK)
- 14:50** Essential association between Z-ring anchors and cell wall synthases initiates bacterial cell division
Manuel Pazos Don Pedro (manuel.pazos@ncl.ac.uk)
 Principal Investigator: Waldemar Vollmer. Institute for Cell and Molecular Biosciences, Newcastle University (UK)
- 15:10** Regulation of developmental transitions in Streptomyces
Felix Ramos-Leon (felix.ramos-leon@jic.ac.uk)
 Principal Investigator: Mark J. Buttner. John Innes Centre (UK)
- 15:30** Molecular mechanism of Shigella vacuolar rupture
Noelia López Montero (noelia.lopez-montero@pasteur.fr)
 Principal Investigator: Jost Enninga. Institut Pasteur (France)

SYSTEMS BIOLOGY / VIROLOGY / NANOBIOMEDICINE

Room B.6

(Chair: Juan Poyatos, Urtzi Garaigorta & Domingo Barber)

- 14:30** Unraveling cell clone dynamics in epithelium
Gabriel Piedrafita Fernández (gp10@sanger.ac.uk)
 Principal Investigator: Philip Jones. Wellcome Trust Sanger Institute (UK)
- 14:50** Understanding intra-host population complexity loss, the main weakness of HIV-1
Ramón Lorenzo Redondo (ramon.lorenzo@northwestern.edu)
 Principal Investigator: Steven Wolinsky, Feinberg School of Medicine, Northwestern University (USA)
- 15:10** A graphene oxide 2D platform for siRNA intracellular delivery
Irene de Lázaro (irene.delazarodelrey@manchester.ac.uk)
 Principal Investigator: Kostas Kostarelos. The University of Manchester (UK)
- 15:30** Fractal plasmonic gold nanoclusters for chemo-and photo-thermal therapy of colon carcinoma and the related peritoneal carcinomatosis
Vladimir Mulens-Arias (vladimirmascience@gmail.com)
 Principal Investigator: Florence Gazeau. CNRS and Université Paris Diderot (France)

16:00 MESA REDONDA: "CIENCIA Y GÉNERO"

Modera: Carmen Castresana (CNB-CSIC)

Leni Bascones (ICMM-CSIC)
 Carmen Fenoll (Universidad de Castilla la Mancha)
 Manuel de León (ICMAT)
 Pilar López Sancho (ICMM-CSIC)

Juan J. de Damborenea (CENIM- CSIC)
 Anna Fumarola (Fundación Mujeres por África)
 Pablo Llama (AHIGE)