

XXVI Workshop

Advances in Molecular Biology

by Young Researchers Abroad

Centro Nacional de Biotecnología (CNB-CSIC)

21st December 2018

Organizadores

Domingo F. Barber
Mar Valés-Gómez
Susana de Lucas

Colaboradores

Inés Antón
Sylvia Ayora
Sandra Fonseca
Urtzi Garaigorta
Juan Poyatos
Carmen San Martín



Patrocinadores

ThermoFisher
SCIENTIFIC

Promega

Leica
MICROSYSTEMS

VWR
part of avantor

ecogen

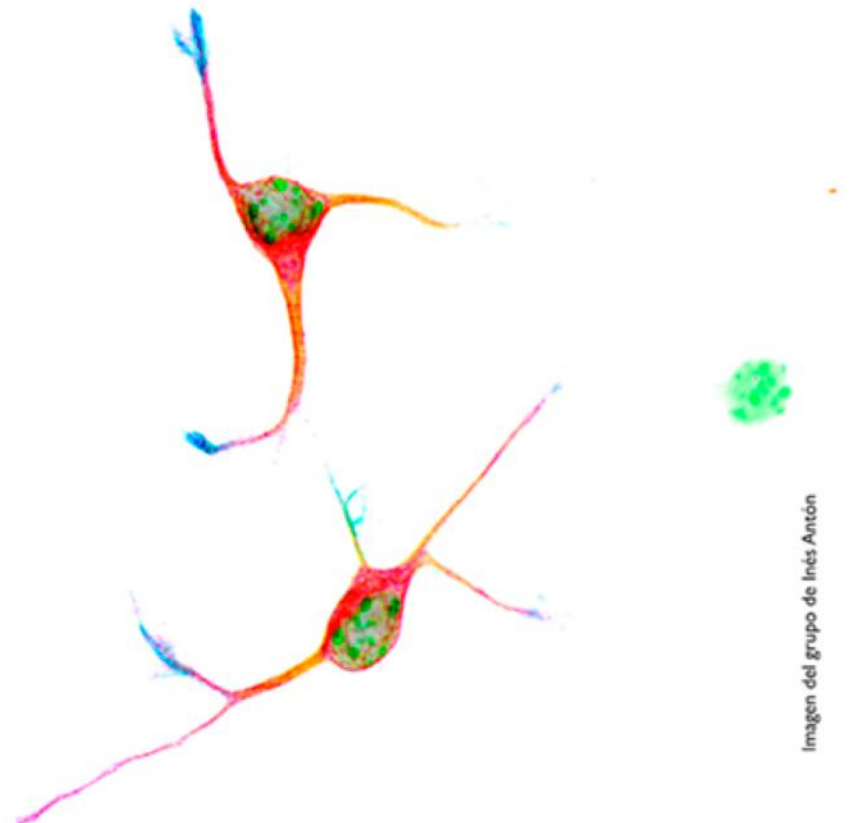


Imagen del grupo de Inés Antón

9:15. Welcome and Introduction: **Mario Mellado**, CNB vice Director

Session I: Molecular and Cellular Biology. Conference room (Chair: Inés Antón)

9:30. The nuclear GAPDH cascade mediates microglial regulation of behavioral flexibility.

Adriana Ramos

Principal Investigator: Akira Sawa. Johns Hopkins University, Baltimore (USA).

9:50. The Fly TRAPPs capture Rab GTPases.

Antonio Galindo

Principal Investigator: Sean Munro. MRC-Laboratory of Molecular Biology. Cambridge (United Kingdom).

10:10. Regulation in brown adipose tissue thermogenesis through the receptor Alk7.

Patricia Mármol

Principal Investigator: Carlos F. Ibáñez. Department of Cell and Molecular Biology, Karolinska Institute, Stockholm, Sweden.

10:30. New technology for control of gene expression and lineage tracing based on CRISPR/Cas9.

Jorge García-Marques

Principal Investigator: Tzumin Lee. Janelia Research Campus-HHMI (Ashburn, VA, USA).

10:50. The Calcium-sensing receptor as a phosphate sensor.

Patricia Pacios Centeno

Principal Investigator: Donald T. Ward. Faculty of Biology, Medicine, and Health. The University of Manchester (United Kingdom).

Coffee Break and Networking session

**Session 2A: Virology & Microbiology. Conference Room.
(Chair: Silvia Ayora & Urtzi Garaigorta)**

- 12:00.** Deconstructing *Citrobacter rodentium* pathogenesis *in vivo*.
David Ruano Gallego
Principal Investigator: Gad Frankel, Imperial College, London (UK).
- 12:20.** Phosphoproteomic Characterization of the Human Interferon Response.
Idoia Busnadiego
Principal Investigator: Benjamin G. Hale. Institute of Medical Virology, Universität Zürich, Switzerland.
- 12:40.** Chromatin dynamics during viral infection.
Irene Carlon Andres
Principal investigator: Sergi Padilla Parra. Wellcome Centre for Human Genetics, University of Oxford, (UK).
- 13:00.** Humanized mice to model human viral infections.
Estefanía Rodríguez
Principal investigator: Thomas Dobner. Heinrich Pette Institute, Leibniz Institute for Experimental Virology, Hamburg, Germany.

**Session 2B: Plant Molecular Biology. Room B6
(Chair: Sandra Fonseca)**

- 12:00.** Seasonal Plant Immunity.
Patricia Fernández Calvo
Principal Investigator: Alain Goossens. PSB-VIB (Belgium)
- 12:20.** Dehiscence zone as a developmental timer for explosive seed dispersal in *Cardamine hirsuta*.
Anahit Galstyan
Principal Investigator: Angela Hay. Department of Comparative Development & Genetics, Max Planck Institute for Plant Breeding Research, Cologne, Germany.
- 12:40.** The antagonism of two Calmodulin-like proteins in plant herbivore defense.
Monika Heyer
Principal Investigator: Axel Mithöfer, Max Planck Institute for Chemical Ecology, Jena (Germany).
- 13:00.** Novel Perspectives in Seed Development.
Ignacio Ezquer
Principal Investigator: Lucia Colombo, Department of Biosciences, University of Milan (Italy).

13:20: Lunch Break

**Session 3A: Immunology & Oncology/ Systems Biology.
Conference Room.
(Chairs: Domingo F. Barber & Mar Valés)**

14:30. Exploring extracellular vesicle biology genome-wide.

Albert Lu

Principal Investigator: Suzanne Pfeffer. Department of Biochemistry, Stanford University, (USA).

14:50. Radiation-induced microRNA reprograms the tumor microenvironment.

Cristina Espinosa-Diez

Principal Investigator: Sudarshan Anand. Knight Cancer Institute, Oregon Health & Science University, Portland, (USA).

15:10. Monitoring advanced melanoma patients after checkpoint blockade: NK cells and MDSCs as predictive biomarkers.

Yago Pico de Coaña

Principal Investigator: Rolf Kiessling. Oncology and Pathology Department, Karolinska Institute, Sweden.

15:30. Serotonin-receptor signaling in osteoblasts regulates leukemia cell engraftment and progression.

Marta Galán-Díez

Principal Investigator: Stavroula Kousteni. Columbia University, New York (USA).

15:50. Data visualization of the results of a large chemical screen.

Antonio de la Vega de León

Principal Investigator: Tanya T. Whitfield, University of Sheffield, (UK).

16:15. Mesa Redonda. **Ciencia y Sociedad: hablemos el mismo idioma**

Moderador: Graziella Almendral

Graziella Almendral, Periodista Científica. Indagando TV.

Ángel Bravo, Patronato de la Federación Española de Enfermedades Raras.

Eduardo Oliver, Investigador del CNIC, Ciencia en el Parlamento.

Enrique Royuela, Director de Principia Magazine.

Margarita del Val, Investigadora del CBM-SO (CSIC). Vocal del Área de Ciencias de la Vida y de la Salud de la Junta de Gobierno de COSCE.

**Session 3B: Structural Biology. Room B6
(Chair: Carmen San Martín & José María Valpuesta)**

14:30. Membrane curvature generation by COPII coat proteins resolved by correlative light and electron microscopy.

Alejandro Melero

Principal Investigator: Liz Miller. MRC Laboratory of Molecular Biology, Cell Biology Division. Cambridge (United Kingdom).

14:50. Structural basis of human Kinesins function and inhibition.

Alejandro Peña

Principal Investigator: Carolyn Moores. Birkbeck University of London (UK).

15:10. Studying virus maturation with cryo-electron microscopy.

Roger Castells Graells

Principal Investigator: George Lomonosoff. John Innes Centre (Norwich, UK).

15:30. Studying Chromatin Modifying Complexes at Near-Atomic Resolution.

Luis Miguel Díaz-Santín

Principal Investigator: Alan Cheung. ISMB-Birkbeck College / UCL, London, (UK).