

XXIII Workshop

Avances en Biología

Molecular por Jóvenes

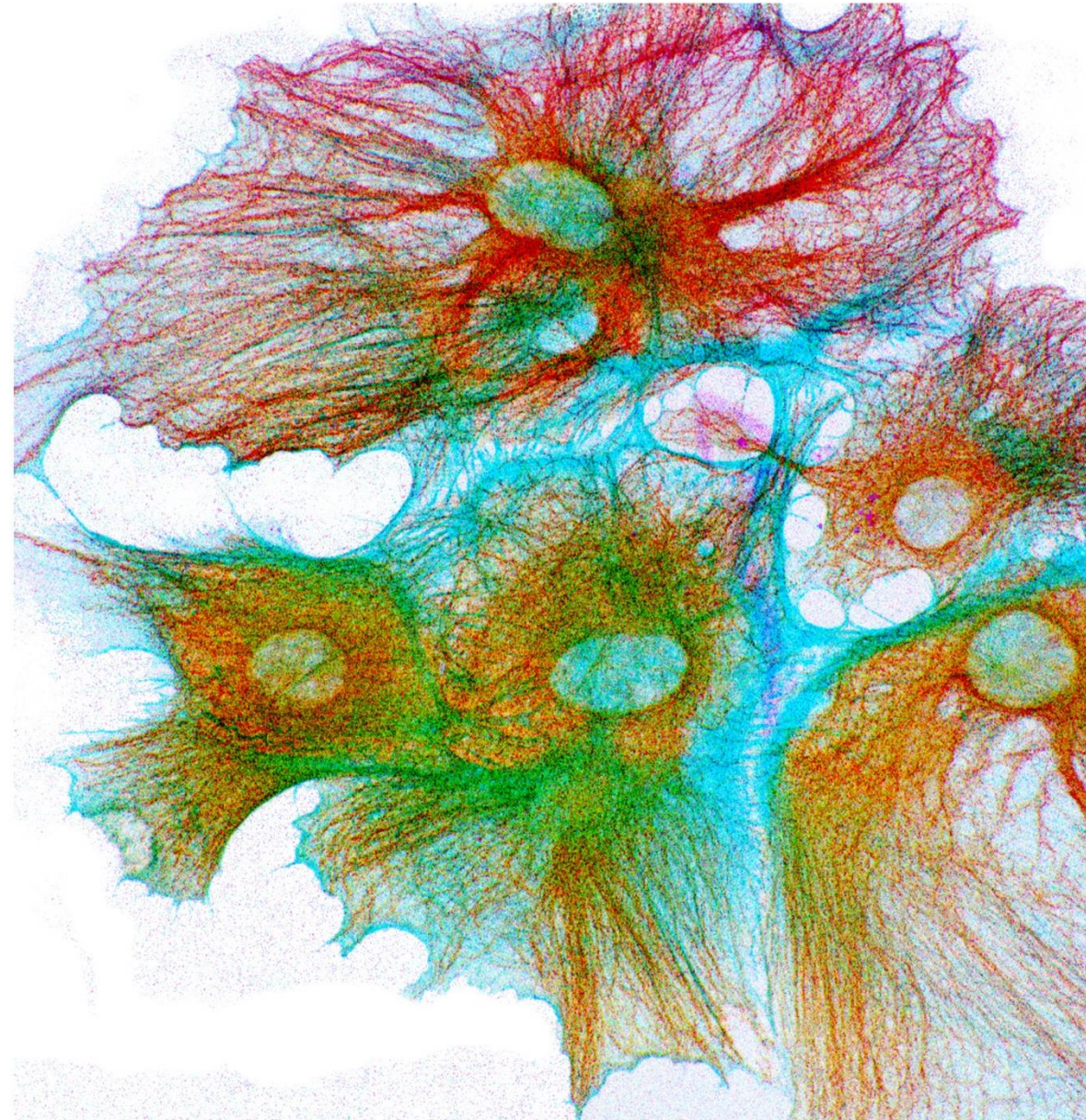
Investigadores en el

Extranjero

22 diciembre 2015

CNB-CSIC

Programa



9:20 Fernando Rojo de Castro, CNB Director: Welcome and presentation

MOLECULAR AND CELLULAR BIOLOGY / VIROLOGY

Conference Room

(Chair: Inés Antón and Fernando Almazán)

9:30 Eduardo Oliver (e.oliver@imperial.ac.uk)

The zinc transporter ZIP12 regulates the pulmonary vascular response to chronic hypoxia

Principal Investigator: Lan Zhao & Martin Wilkins, Centre for Pharmacology & Therapeutics, Imperial College London (UK)

9:50 Marta del Campo (m.delcampomilan@vumc.nl)

Novel biochemical signatures of early stages of Alzheimer's disease

Principal Investigator: Charlotte E. Teunissen, Neurochemistry Lab. Clinical Chemistry department. VU University Medical Center (VUmc), Amsterdam, (The Netherlands)

10:10 Alain Juan de Solís (aj2495@cumc.columbia.edu)

Impact of postnatal undernutrition on the maturation of hypothalamic feeding circuits

Principal Investigator: Lori Zeltser, Division of Molecular Genetics, Columbia University (US)

10:30 Magdalena Martín Urdíroz (m.martin-Urdiroz@exeter.ac.uk)

Investigating the role of BAR domain proteins during plant infection by *Magnaporthe oryzae*

Principal Investigator: Nicholas J. Talbot, University of Exeter (UK)

10:50 Irene Lázaro (irene.delazarodelrey@manchester.ac.uk)

Cell reprogramming towards pluripotency in vivo: perspectives in regenerative medicine

Principal Investigator: Kostas Kostarelos, Nanomedicine Lab, Institute of Inflammation and Repair, Faculty of Human and Medical Sciences, University of Manchester (UK)

11:10 Belinda Baquero Pérez (b.baquero@leeds.ac.uk)

Unravelling RNA epigenetics in viral RNA

Principal Investigator: Adrian Whitehouse, School of Molecular and Cellular Biology, University of Leeds (UK)

(11:30 Coffee break)

PLANT MOLECULAR BIOLOGY

Room B.6

(Chair: Andrea Chini and Enrique Rojo)

9:30 Jorge Vicente (jorge.vicente_conde@nottingham.ac.uk)

The N-end rule pathway coordinates plant stress responses

Principal Investigator: Michael Holdsworth, University of Nottingham (UK)

09:50 Miriam Oses Ruiz (mo256@exeter.ac.uk)

RA_n S-phase checkpoint regulates septin-dependent host invasion by the rice blast fungus *Magnaporthe oryzae*

Principal Investigator: Nicholas Talbot, University of Exeter, (UK)

10:10 Verónica González-Doblas (Veronica.GonzalezDoblas@unil.ch)

Casparian strip formation

Principal Investigator: Niko Geldner, University of Lausanne (Switzerland)

10:30 Fernando Alemán (faleman@scripps.edu)

An ABA-increased interaction of an ABA receptor with MYC2 Transcription Factor: A putative link of ABA and JA signalling

Principal Investigator: Julian Schroeder, University of California San Diego (US)

10:50 Chidi Afamefule (afamefule@mpipz.mpg.de)

Towards understanding the genetic basis of axillary bud establishment in *Arabidopsis thaliana* and *Cardamine hirsute*

Principal Investigator: Miltos Tsiantis, Max Planck Institute for Plant breeding Research Koln (Germany)

(11:30 Coffee break)

IMMUNOLOGY & ONCOLOGY

Conference Room

(Chair: Yolanda Carrasco)

12:00 Borja López Holgado (ruben@biochem.mpg.de)

Modelling Paediatric Brain Tumours by Using Pluripotent Stem Cells

Principal Investigator: Michael D Taylor, The Hospital for Sick Children, Toronto (Canada)

12:20 Enrique Martín-Gayo (egayo@mgh.harvard.edu)

Priming of T follicular helper cells by dendritic cells in HIV-1 infection

Principal Investigator: Xu Yu, Ragon Institute of MGH, MIT and Harvard (US)

12:50 Javier Redondo-Muñoz (javier.redondo-munoz@manchester.ac.uk)

How epigenetic alterations regulate nuclear properties and cell migration in lymphocytes

Head of Department: Karl Kaddler, Wellcome Trust Centre for Cell-Matrix Research (WTCCMR), Faculty of Life Sciences, University of Manchester (UK)

13:10 Manuel Tardáguila Sancho (manueltar@ufl.edu)

FASTAIR, Functional Alternative Isoform Expression Analysis

Principal Investigator: Ana Conesa, University of Florida, Gainesville (US)

13:30 Manuel D. Diaz-Munoz (manuel.diaz-munoz@babraham.ac.uk)

Post-transcriptional mRNA regulation is essential for the B cell antibody response

Principal Investigator: Martin Turner, Laboratory of Lymphocyte Signalling and Development, The Babraham Institute. Cambridge (UK)

(13:50 Lunch)

PLANT MOLECULAR BIOLOGY

Room B.6

(Chair: Andrea Chini and Enrique Rojo)

12:00 Jose Fernández (jose.Fernandez@nottingham.ac.uk)

Pollen Development: From Models to Crops

Principal Investigator: Zoe A Wilson, University of Nottingham (UK)

12:20 Ana López Sánchez (a.lopez-sanchez@sheffield.ac.uk)

The Epigenetic Basis of Plant Immunity

Principal Investigator: Jurriaan Ton, University of Sheffield (UK)

12:50 Sara Díaz Trivino (sara.diaztrivino@wur.nl)

Understanding genetic circuits for patterning and plasticity

Principal Investigator: Ben Scheres, Wageningen University (The Netherlands)

13:10 María Nohales (nohalesz@dornsife.usc.edu)

GIGANTEA - Giving Rhythm to Plant Development

Principal Investigator: Steve Kay, University of Southern California (US)

13:30 CERFA Presentation

(13:50 Lunch)

IMMUNOLOGY & ONCOLOGY / MICROBIOLOGY

Conference Room

(Chairs: Domingo Barber and Silvia Ayora)

14:50 Alba Maiques-Diaz (alba.maiques-diaz@cruk.manchester.ac.uk)

Understanding how Lysine Specific Demethylase 1 (LSD1) inhibitors Works

Principal Investigator: Tim C. Somervaille, Cancer Research UK Manchester Institute (UK)

15:10 Ana Rio-Machin (a.rio-machin@qmul.ac.uk)

The Genetics of Familial Leukaemia

Principal Investigator: Jude Fitzgibbon, Centre for Haemato-oncology, Barts Cancer Institute, Queen Mary University of London (UK)

15:30 Ana Ruiz-Saenz (ana.ruiz-saenz@ucsf.edu)

Novel strategy to target the undruggable HER3 in human cancers: blocking its translocation into the ER

Principal Investigator: Mark Moasser, MD, University of California San Francisco (US)

15:50 César de la Fuente Núñez (cfuente@mit.edu)

Bio-inspired antimicrobial therapeutics to treat drug-resistant infections

Principal Investigator: Timothy K. Lu, Massachusetts Institute of Technology, Cambridge, MA, (US)

16:10 Javier Sotillo Gallego (javier.sotillo@jcu.edu.au)

What's the role of exosomes in host-parasite interactions?

Principal Investigator: Alex Loukas, Australian Institute of tropical Health and Medicine (AITHM), Cairns, Queensland (Australia)

(16:30 Coffee break)

STRUCTURAL AND SYSTEMS BIOLOGY

Room B.6

(Chairs: Carmen San Martín and Juan Poyatos)

14:50 Juan A. Bueren-Calabuig (j.a.buerencalabuig@dundee.ac.uk)

Molecular details of the mRNA capping enzyme activation revealed by Molecular Dynamics Simulations

Principal Investigator: Andrei Pisiakov, University of Dundee, Dundee (UK)

15:10 Israel S. Fernández (israel@mrc-lmb.cam.ac.uk)

CrPV-IRES: the dynamic tale of a molecular pirate.

Principal Investigator: V. Ramakrishnan, MRC- Laboratory of Molecular Biology, Cambridge (UK)

15:30 Rafael Fernández Leiro (rleiro@mrc-lmb.cam.ac.uk)

The bacterial DNA replication machine caught in the act by cryo-EM

Principal Investigator: Meindert H. Lamers, MRC-Laboratory of Molecular Biology, Cambridge (UK)

15:50 Javier Estrada (jestrada@hms.harvard.edu)

Origins of precise gene expression in development

Principal Investigator: Angela DePace y Jeremy Gunawardena, Harvard Medical School (US)

16:10 Ian Morilla (morilla@math.univ-paris13.fr)

Model predicting drug response

Principal Investigator: Gilles Wainrib, Jean Pierre Hugot y Eric Ogier-Denis, Paris13-Sorbonne y Paris Descartes (INSERM) (France)

(16:30 Coffee break)

MONÓLOGO

Salón de Actos

17.00 Manuel Tardáguila Sancho, cofundador de "The Big Van Theory"

17:10

MESA REDONDA:

**“Investigadores, medios e instituciones científicas, los tres actores de la
Comunicación de la Ciencia: sinergias y dificultades”**

Salón de Actos

Modera: **José Cervera**, periodista especializado en ciencia.

- **Pilar Tígeras**, vicepresidenta de Cultura Científica del CSIC.
- **Pampa García Molina**, coordinadora y redactora jefa del Agencia SINC.
- **Jose Antonio López**, científico y divulgador en el CBM.
- **Jose Antonio Pérez**, director de Orbits Laika