

XXIV Workshop

Advances in Molecular Biology

by young researchers abroad

December 22, 2016

CNB-CSIC

Organizadores

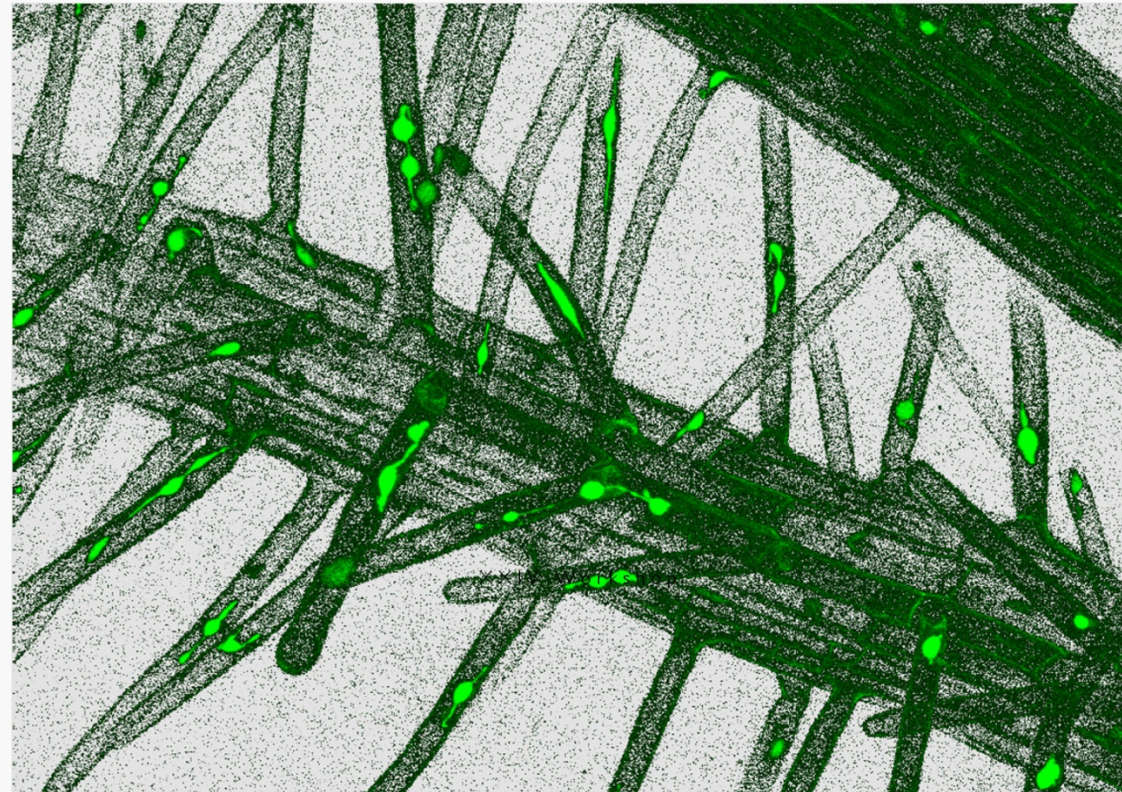
Domingo F. Barber
Yolanda R. Carrasco
Julia García López

Colaboradores

Carmen San Martín
Sylvia Ayora
Andrea Chini
Inés Antón
Fernando Almazán
Juan Poyatos



Patrocinadores:



9:20 Welcome and presentation: Fernando Rojo, CNB-CSIC director

STRUCTURAL AND MOLECULAR BIOLOGY

Conference Room

(Chairs: Carmen San Martín & Fernando Almazán)

- 9:30** Architecture of the yeast Elongator complex.
Maria I. Dauden (dauden@embl.de)
Principal Investigator: Christoph W. Müller. EMBL, (Heidelberg, Germany)
- 9:50** Structural and biochemical characterization of *Mycobacterium tuberculosis* replicative DNA polymerase DnaE1 and its unique PHP-exonuclease.
Soledad Baños Mateos (smateos@mrc-lmb.cam.ac.uk)
Principal Investigator: Meindert Lamers. MRC Laboratory of Molecular Biology (Cambridge, UK)
- 10:10** Bacterial actin FtsA regulates assembly of bacterial tubulin FtsZ during cytokinesis.
Marcin Krupka (marcin.krupka@uth.tmc.edu)
Principal Investigator: William Margolin, University of Texas (UTHealth), (Houston, TX, USA)
- 10:30** Structures of a conjugative transposon integrase – DNA complex in preparation for integration
Anna Rubio Cosials (cosials@embl.de)
Principal Investigator: Orsolya Barabas. EMBL (Heidelberg, Germany).
- 10:50** Cancer Engineering: A translation from one language to another
Aranzazu Villasante (av2499@columbia.edu)
Principal Investigator: Gordana Vunjak-Novakovic, Columbia University (New York, NY, USA)
- 11:10** Transition-Metal-Free CO-Releasing BODIPY Derivatives Activatable by Visible to NIR Light as Promising Bioactive Molecules
Eduardo Palao Utiel (e.palao@science.ru.nl)
Principal Investigator: Floris Rutjes, Radboud University (Nijmegen, The Netherlands)

(11:30 Coffee break)

PLANT MOLECULAR BIOLOGY

Room B.6

(Chairs: Andrea Chini)

- 9:30** Gene silencing in plants
Laura Arribas Hernández (laura.arribas@bio.ku.dk)
Principal Investigator: Peter Brodersen. University of Copenhagen, (Copenhagen, Denmark)
- 09:50** Familiar feeling: extra-chromosomal recombination driving evolution of plant LTR retrotransposons?
Diego Sánchez (diego.sanchez@slcu.cam.ac.uk)
Principal Investigator: Jerzy Paszkowski. Sainsbury Laboratory, University of Cambridge, (Cambridge, UK)
- 10:10** Beneficial root traits for improving crops performance
Ana Páez (apaezgarcia@noble.org)
Principal Investigator: Elison Blancaflor. The Samuel Roberts Noble Foundation (Ardmore, OK, USA)
- 10:30** PP2A-B'γ controls methylation of indole glucosinolates and modulates methionine metabolism in *Arabidopsis*
Sara Alegre García (sara.alegregarcia@utu.fi)
Principal Investigator: Saijaliisa Kangasjärvi. Turku University, Finland
- 10:50** Deciphering the pathways for auxin metabolism and homeostasis
Rubén Casanova Sáez (ruben.casanova.saez@slu.se)
Principal Investigator: Karin Ljung. Umeå Plant Science Centre, (Umeå, Sweden)
- 11:10** Regulation of MIR165/166 by class II and class III HD-ZIP proteins establishes leaf polarity
Paz Merelo Cremades (merelo@embl.de)
Principal Investigator: Marcus Heisler. EMBL, (Heidelberg, Germany)

(11:30 Coffee break)

12.00

MESA INFORMATIVA:

“Programas de atracción de talento y apoyo a la investigación en España”

Conference Room

Modera: Mario Mellado, vicedirector del CNB-CSIC

- **Jesús Rojo González**, Fundación Madri+d, Technology Transfer and European Programmes, National Contact Point Marie Skłodowska-Curie.
- **Julio Merino García**, DG de Universidades e Investigación, Consejería de Educación, Juventud y Deporte, Comunidad de Madrid.
- **Roberto Otero**, director de la Oficina de Programas Europeos e Internacionales (OPEI) de la UAM y coordinador del programa *InterTalentum*
- **Rosa Rodríguez Bernabé**, Subdivisión de Programas temáticos Científico Técnicos De Coordinación y Evaluación

(13:30 Lunch)

IMMUNOLOGY & ONCOLOGY / MOLECULAR & CELLULAR BIOLOGY

Conference Room

(Chairs: Yolanda Carrasco & Inés Antón)

- 15:00** Parkin ablation modulates mitophagy and attenuates mutant SOD1 toxicity in vivo.
Gloria M. Palomo (gmp2003@med.cornell.edu)
Principal Investigator: Giovanni Manfredi. Brain and Mind Research Institute of Weill Cornell Medicine, (New York, NY, USA)
- 15:20** Rasa3 catalytic inactivation controls in vivo integrin-mediated adhesion in megakaryocyte/platelets, endothelial cells and neurons
Patricia Molina Ortiz (pmolina@ulg.ac.be)
Principal Investigator: Stephane Schurmans. GIGA-Research Center, ULg (Liege, Belgium)
- 15:40** Non-coding RNAs and autism
Víctor Briz Herrezuelo (victor.briz@cme.vib-kuleuven.be)
Principal Investigator: Claudia Bagni. VIB Center for the Biology of Disease, KU Leuven, (Leuven Belgium)
- 16:00** Optimizing CRISPR-Cas9 to understand zygotic genome activation in vertebrates.
Miguel A. Moreno-Mateos (miguel.moreno-mateos@yale.edu)
Principal Investigator: Antonio Giraldez. Yale University (New Haven, CT, USA)
- 16:20** CD47 regulates integrin activation during leukocyte transmigration
Verónica Azcutia Criado (vazcucr@med.umich.edu)
Principal Investigator: Francis William Luscinskas, Brigham and Women's Hospital & Harvard Medical School (Boston, MA, USA)
- 16:40** IFN γ is retained in the tumoral matrix by galectin-3
Mónica Gordon Alonso (monicga@gmail.com)
Principal Investigator: Pierre van der Bruggen, Ludwig Institute for Cancer Research-Brussels branch, (Brussels, Belgium)

PLANT MOLECULAR BIOLOGY

Room B.6

(Chairs: Enrique Rojo)

- 15:00** Plasma membrane, auxin signaling and the control of root system architecture
Maria Del Mar Marqués Bueno (maria-del-mar.marques-bueno@ens-lyon.fr)
Principal Investigator: Yvon Jaillais. ENS-Lyon, Université de Lyon (Lyon, France)
- 15:20** Coupling Alternative Splicing and Nonsense-mediated Decay in potato challenged with *Phytophthora infestans*.
Estela Domingo-Torres (Estela.Domingo-Torres@hutton.ac.uk)
Principal Investigator: Craig Simpson e Ingo Hein. Universidad de Dundee y The James Hutton Institute, (Dundee, Scotland, UK)
- 15:40** Engineering a rice immune receptor for extended pathogen recognition
Juan De La Concepción (Juan.De-La-Concepcion@jic.ac.uk) Twitter: @delaconcepcion
Principal Investigator: Mark Banfield. John Innes Center, (Norwich, UK)
- 16:00** Identification and characterization of water sensing mechanisms in plants.
Josep Vilarrasa-Blasi (pep@stanford.edu)
Principal Investigator: Jose Dinneny. Carnegie Institution for Science, (Stanford, CA, USA)
- 16:20** Tudor Staphylococcal Nuclease (TSN) plays a dual role in plants
Emilio Gutiérrez Beltrán (emgube@gmail.com)
Principal Investigator: Peter Bozhkov. Swedish University of Agricultural Sciences (SLU), Uppsala BioCenter, (Uppsala, Sweden)
- 16:40** Systems biology in the production of bioenergy from microalgae
María Huete-Ortega (mariahuete@gmail.com)
Principal Investigator: Raman Vaidyanathan, The University of Sheffield (Sheffield, UK)