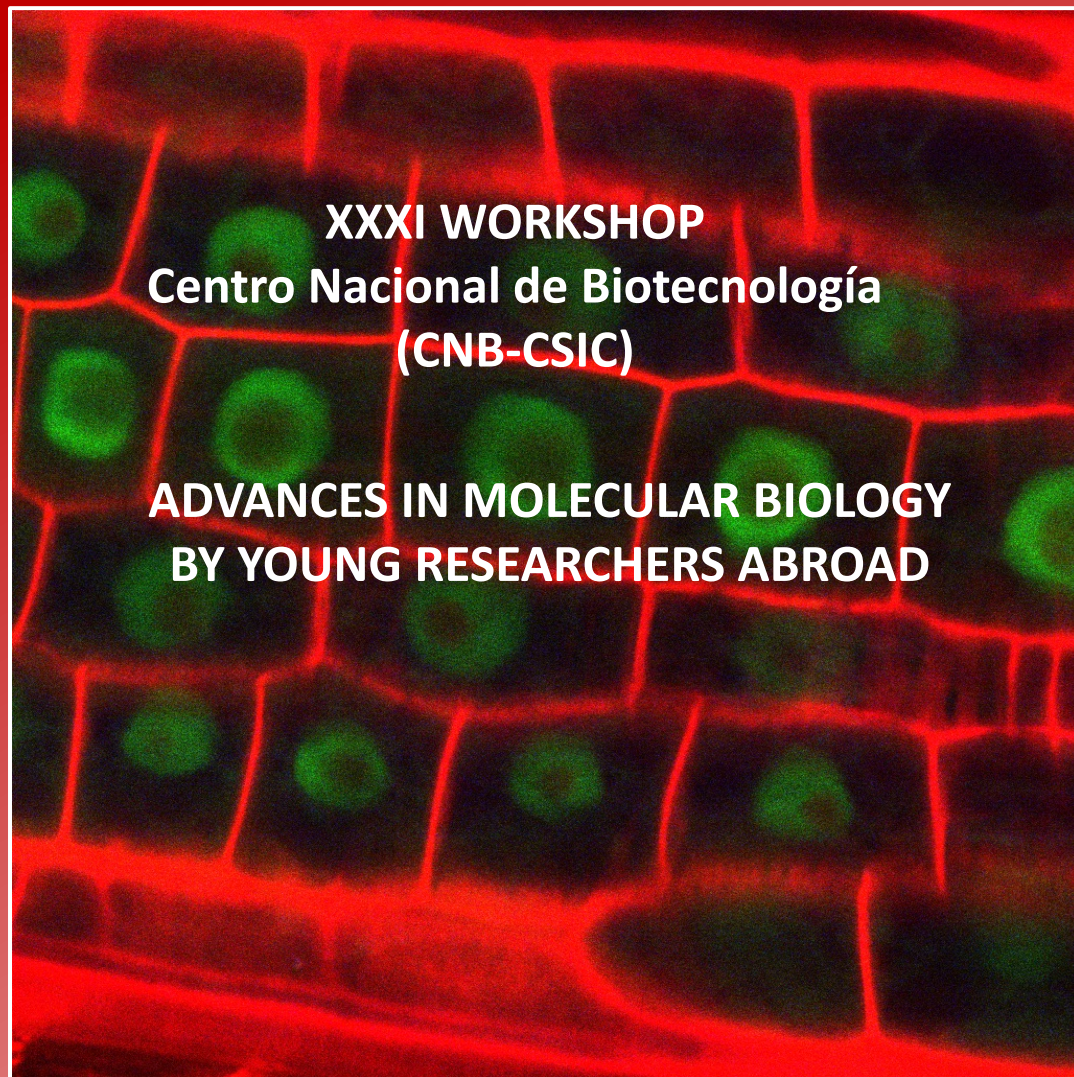


21st December 2023

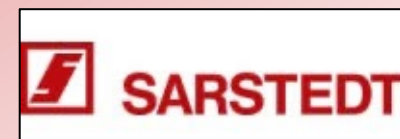
Photo courtesy of Enrique Rojo (CNB-CSIC)



ORGANIZERS

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Esteban Martínez
Rubén García Martín
Esther Ortega

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CENTRO NACIONAL
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9:00h LECTURE HALL
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XXXI Workshop: Advances in Molecular Biology by Young Researchers Abroad

21st December 2023. Centro Nacional de Biotecnología (CNB-CSIC).



09:00 Welcome and Introduction: Jesús Salvador

Session 1. Chair: Rubén García Martín. Lecture hall.

- 09:10 Application of in vivo cell stress reporters as mechanistic biomarkers of chemical toxicity. **Francisco de Asís Iñesta Vaquera**. Univ. of Extremadura / Univ. of Dundee, Scotland (UK). P.I. Prof. C. Roland Wolf.
- 09:35 Type I interferons drive MAIT cell functions against bacterial pneumonia. **Juan Carlos López-Rodríguez**. The Francis Crick Institute / King's College London (KCL), London (UK). P.I. PhD. Patricia Barral.
- 10:00 Co-targeting adaptive survival signals to overcome MEK inhibitor resistance in pancreatic cancer. **Naiara Perurena**. Brigham & Women Hospital, Boston (USA) P.I. PhD. Cichowski.
- 10:25 – 11:10 Coffee Break and networking session

Session 3. Chairs: Urtzi Garaigorta & Esther Ortega. Lecture hall.

- 12:25 The human CD47 checkpoint is targeted by an immunosuppressive *Aedes aegypti* salivary factor to enhance arboviral skin infectivity. **Alejandro Marín López**. Yale School of Medicine, (USA). P.I. PhD. Erol Fikri.
- 12:50 Unravelling the molecular mechanisms governing the early stage of autophagosome biogenesis. **Carmen Oeo Santos**. The Francis Crick Institute, London (UK). P.I. PhD. Anne Schreiber.
- 13:15 Structural and mechanistic insights into *Streptococcus pneumoniae* NADPH oxidase. **Pablo San Segundo Acosta**. Max Planck Institute of Biophysics (Germany) / Instituto de Salud Carlos III (Spain). P.I. PhD. Bonnie J. Murphy.
- 13:40 – 15:10 Lunch break and networking session.

Christmas basket & pipette raffle!

16:45 Round Table: “Planes de atracción de talento y consolidación de Jóvenes investigadores en España”. Chair: Mario Mellado.

Gonzalo Arévalo: Director General de Planificación de Investigación, Ministerio de Ciencia e Innovación.

Ana Isabel Cremades Rodríguez: Directora General de Investigación e Innovación Tecnológica de la Comunidad de Madrid.

Carmen Simón: Directora del Departamento de Postgrado y Especialización del CSIC.

Lucas Sánchez: Cofundador y director de Scienseed

Jesús Sánchez: Fundación CRIS contra el Cáncer

18:00 – 19:00 Workshop closure. Cava and Christmas sweets.

Session 2. Chair: Álvaro San Millán. Lecture hall.

- 11:10 Mutations in the efflux pump regulator MexZ shift tissue colonization by *Pseudomonas aeruginosa* to a state of antibiotic tolerance. **Pablo Laborda Martínez**. Department of Clinical Microbiology, Rigshospitalet, Copenhagen, (Denmark). P.I. PhD. Søren Molin & PhD. Helle Krogh Johansen.
- 11:35 Tail assembly interference is novel and widespread strategy in prokaryotic immune system. **Alfred Fillol Salom**. Imperial College of London (UK). P.I. PhD. Jose Penades & PhD. Ramesh Wigneshweraraj.
- 12:00 Cell-cell fusion is a one-way process... or is it?. The role of a Cdc42 effector. **Julia María Coronas Serna**. Department of Molecular and Cellular Biology (MOCEL), Université de Genève (UNIGE), (Switzerland). P.I. PhD. Sophie G. Martin.

Session 4. Chairs: Pablo Pulido & Esteban Martínez. Lecture hall.

- 15:10 Decoding the transcriptional activity antagonism in auxin response factors. **Jorge Hernández-García**. Wageningen University & Research (WUR) (The Netherlands). P.I. PhD. Dolf Weijers.
- 15:35 Unveiling a novel approach for investigating drought stress in Norway spruce seedlings: Integrating high-throughput phenotyping, metabolomics and transcriptomics. **Carlos Trujillo Moya**. Austrian Research Centre for Forests (Vienna, Austria). P.I. PhD. Marcela van Loo and PhD. Silvio Schüller
- 16:00 Construction of a synthetic cellular organelle utilizing formate and acetate to produce the central metabolite pyruvate. **Henning Kirst**. Depart. of Genetics. Faculty of Science, Univ. of Córdoba / Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC) (Spain)