



26th & 27th November, 2020

PROGRAMME OF DAILY ACTIVITIES

26th
NOVEMBER

9:00 h - Welcome

 9:15 h - Guest Speaker: **Gwyneth Ingram** (CNRS/Ecole normale supérieure de Lyon)
Pre-deployment establishment of surface barriers during plant reproduction

10:00 h - Coffee Break

10:10 h - Parallel Sessions

Session I: Development

Invited Speaker

Javier Brumós (IBMCP, UPV-CSIC) 30'

Dissecting plant responses to hormones: from root development to fruit ripening

Ainoa Planas Riverola (Crag, CSIC-IRTA-UAB-UB)

Precise transcriptional control of cellular quiescence by BRAVO/WOX5 complex in Arabidopsis roots

José Manuel Pérez Pérez (Universidad Miguel Hdez.)

An Auxin-mediated regulatory framework for wound-induced adventitious root formation in tomato shoot explants

Paz Merelo (IBMCP, UPV-CSIC)

Characterization of the cellular and molecular events controlling the proliferative arrest in Arabidopsis thaliana

Anna Solé Gil (IBMCP, UPV-CSIC)

The role of vascular development genes in non-vascular plants

10:10 h

10:40 h

10:55 h

11:10 h

11:25 h

Session II: Plant interaction with others organisms

Invited Speaker

Rosa Lozano Durán (PSC Shanghai) 30'

Pathogen effectors as probes: a multifunctional viral protein sheds light on chloroplast-mediated defences

Andrea Sánchez Vallet (IBZ Zürich - CBGP, UPM-INIA)

Chromatin dynamics contribute to the spatiotemporal expression pattern of effector genes in a fungal plant pathogen

Diego Rebaque (CBGP, UPM-INIA)

Cell wall-derived β -1,3/1,4-glucans trigger plant immune responses

Diego López Márquez (IHSM, UMA-CSIC)

miR825-5p targets TIR-NBS-LRR genes to downregulate basal immunity against Pseudomonas syringae in Arabidopsis

Ana López Sánchez (CNB, CSIC)

Exploring the role of mitochondrial changes in the epigenetically controlled immune priming

11:40 h - Coffee Break

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12:00 h - Parallel Sessions

Sesion I: Development (continue)

Myriam Calonje (IBVF, US-CSIC)

H2AK121ub in Arabidopsis associates with a less accessible chromatin state at transcriptional regulation hotspots

Javier Barrero Gil (CBGP, UPM-INIA)

H4 acetylation, a switch for greener plastids

Sesion III: Technology tools

Invited Speaker

Javier Gallego Bartolomé (IBMCP, UPV-CSIC) 30'

Targeted manipulation of DNA methylation in plants

José M. Franco Zorrilla (CNB, CSIC)

DNA features beyond the transcription factor binding sites specify target recognition by plant bHLHs

Luis Orduña (I2SYSBIO, UV-CSIC)

DAP-Seq used to unveil MYB cisrome landscapes specifically associated to the regulation of secondary metabolism in grape

Mireia Uranga (IBMCP, UPV-CSIC)

Efficient CAS9 multiplex editing using unspaced sgRNA arrays engineering in a potato virus X vector

Sesion IV: Metabolism

Invited Speaker

Manuel Rodríguez-Concepción (IBMCP, UPV-CSIC) 30'

New ways of improving carotenoid production and storage in plant cells

12:30 h Irene García (IBVF, US-CSIC)

From cyanide metabolism to signaling in plant response to pathogens: who is the enemy?

12:45 h Inmaculada Coletto (UPV/EHU)

Ammonium nutrition and iron homeostasis interact via MYB28 and MYB29 transcription factors

13:00 h Ángel Chávez (CRAG, CSIC-IRTA-UAB-UB)

Glycosylated sterols play an important role in tomato plant and fruit development

13:15 h Vicent Arbona (Universitat Jaume I)

Metabolic and genetic responses of tomato (*Solanum lycopersicum* L. Mill) to soil flooding associated to ABA signaling

13:30 h Lunch

 15:30 h - Poster Session (2,5 h)

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9:00 h - Parallel Sessions

Session V: Signaling

Invited Speaker

Crisanto Gutiérrez (CBM Severo Ochoa, CSIC-UAM) 30'
Cell proliferation during organogenesis: more complex than anticipated

Jordi Moreno Romero (CRAG, CSIC-IRTA-UAB-UB)
A role for the chromatin remodeler LHP1 in the plant response to vegetation proximity

Esther Cañibano (CNB, CSIC)
DET1-mediated COP1 regulation avoids HY5 activity over second-site targets to tune plant photomorphogenesis

Javier Antúnez Sánchez (University of Warwick, UK)
A new role for histone demethylases in the maintenance of genome integrity in Arabidopsis

Inmaculada Sánchez-Vicente (CIALE, USAL)
ANAC089 transcription factor is an ABA and NO molecular player during seed germination and stress

Session VI: Plant Biotechnology

Invited Speaker

Amparo Monfort (CRAG, CSIC-IRTA-UAB-UB) 30'
Genetic approach to improve aroma in strawberry breeding programs

9:30 h Jorge Lozano Juste (IBMCP, UPV-CSIC)
Specific activation of maize ABA receptors with small molecules

9:45 h Pablo Carbonell Bejerano (MPI for Developmental Biology)
Phased genome assembly to track clonal improvement in Tempranillo grapevine cultivar

10:00 h Pilar Cubas (CNB, CSIC)
What's up? What's down?: Disoriented potato plants -lacking BRANCHED1B- make aerial tubers

10:15 h Ángela Contreras (CBGP, UPM-INIA)
Novel pathway to degrade top-ranked biphenyl-derived persistent organic pollutants

10:30 h - Coffee Break

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11:00h - Parallel Sessions

Session VII: Abiotic stress

Invited Speaker

Mar Castellano (CBGP, UPM-INIA) 30'

Analysis of translation regulation and its use to unravel key proteins involved in plant adaptation to stress

Vitor Amorim-Silva (IHSM, UMA-CSIC)

TTL proteins as safeguards of the cellulose synthase complex during abiotic stress

Cristian Mateo-Elizalde (CNB, CSIC)

Arsenite provides a selective signal that coordinates Arsenate uptake and detoxification in Arabidopsis

Eduardo Berenguer (CIB Margarita Salas, CSIC)

Modulators of metacaspases and autophagy benefit microspore embryogenesis induction by reduced cell death in Brassica napus

Regina Niñoles (IBMCP, UPV-CSIC)

The flavonoid 3'hydroxylase TT7 plays a crucial role in Arabidopsis seed coat development and seed longevity

Session VIII: Biovegen

- 11:00 h DVA IBERIA. Andrés de La Cruz. Global Head of Crop Nutrition
INCENTIA: Un mundo de posibilidades.
- 11:10 h ▶ MAFA BIOSCIENCE. Hanan El Bakkali. Dir.º, Asuntos Regulatorios
MAFA y la biotecnología vegetal para nuevas soluciones naturales
- 11:20 h ▶ TRICOPHARMING. Luis Matías. CEO y cofundador
From medicinal trichomes research to business.
- 11:30 h TARAZONA. Sergio Monzón. Responsable de I+D+i
Fertilosofía: la ciencia detrás de la sostenibilidad.
- 11:40 h ▶ CDTI. Carlos Sánchez. Dpto. Biotecnología y Agroalimentación
Oportunidades de financiación en proyectos de I+D en el sector agroalimentario.
- ◀ 11:45 h
- 11:50 h ▶ AEI-Agencia Estatal de Investigación. Mª Ángeles Ferre
Programas Temáticos Científicos-Técnicos
- 12:00 h BIOVEGEN-Plataforma Tecnológica de Biotecnología Vegetal.
Gonzaga Ruiz de Gauna. Coordinador: BIOVEGEN como red de referencia en I+D en producción vegetal
- 12:10 h ▶ Preguntas y coloquio
- 12:15 h

12:30 h - Coffee Break

 12:45 h - Guest Speaker: **Pablo Manavella** (IAL CONICET-UNL, Santa Fe, Argentina)
Regulation of the genome topology by small RNAs

13:30 h - Meeting Closing