

PRELIMINARY PROGRAMME
XVIII PLANT MOLECULAR BIOLOGY MEETING (RBMP 2026)

Wednesday July 1st

08:45 – 10:15	Registration
10:15 – 10:45	Opening
10:45 – 11:35	Opening Keynote Lecture <i>Plant Adaptation to Terrestrial Environments: Systematic Enhancement of Rooting Capacity</i> Tom Beeckman (VIB, Gent, Belgium)
11:40 – 12:10	Coffee Break
	Session 1: METABOLISM AND PLANT NUTRITION
	Chairs: Joaquín Medina (CBGP, UPM-CSIC, Madrid) Rosa M ^a Rivero (CEBAS, CSIC, Murcia)
	Invited Talk
12:10 – 12:35	<i>Understanding Metabolic Flexibility Towards a C4-CAM Switch</i> Ivan Reyna Llorens (CRAG, CSIC-IRTA-UAB-UB, Bellaterra, Barcelona)
	Selected Talks
12:35 – 12:50	<i>Functional Characterization of a bHLH Transcription Factor Regulating Terpene Biosynthesis and Flavor Quality in Octoploid Strawberry Fruits.</i> Patricia Pacheco-Ruiz (IHSM, UMA-CSIC, Málaga)
12:50 – 13:05	<i>A Traitor in the Stress Army: Phosphate Deficiency Suppresses SnRK1 Activity to Enhance the Phosphate Starvation Response in Arabidopsis thaliana.</i> Antonio Corbalán-Acedo (IBMCP, CSIC-UV, Valencia).
13:05 – 13:20	<i>Characterization of the Mechanisms Involved in Nitrate uptake in Tomato</i> Elisa Jiménez-Estévez (CEBAS, CSIC, Murcia)
13:20 – 13:35	<i>Finding the Enzymes Responsible for the Production of Riboflavin Derivatives.</i> Jorge Rodríguez-Celma (EEAD, CSIC, Zaragoza)
13:35 – 13:50	<i>Antagonistic Regulatory Circuits of Nitrogen and Drought Signaling Mediated by NLP7 in Arabidopsis.</i> José M Álvarez (Centro de Genómica y Bioinformática, Facultad de Ciencias, Santiago, Chile).

13:55 – 15:15

Lunch

Session 2: DEVELOPMENT

Chairs: Cristina Ferrándiz (IBCMCP, CSIC-UV, Valencia)
Jose Manuel Pérez-Pérez (UMH, Elche)

Invited Talk

15:15 – 15:40

Translational Regulation in Plant Development: from Ribosome Specialization to Selective Translation
Catharina Merchante (IHSM, UMA-CSIC, Málaga)

Selected Talks

15:40 – 15:55

Molecular Mechanisms Underlying Brassinosteroids and Nitric Oxide Crosstalk to Shape Plant Growth and Development
Jorge Rubio Heras (USAL, Salamanca)

15:55 – 16:10

Unravelling the Molecular Basis of Endosperm Evolution
Daniela Barro-Trastoy (Max Planck, Potsdam-Golm, Germany)

16:10 – 16:25

The CONSTANS Paradox: Transcriptional Repression Coupled with Protein Stabilization Drives the Seasonal Clock in Trees
Alejandro Piedrabuena Díaz (CBGP, UPM-CSIC, Madrid)

16:25 – 16:40

A dynamic phosphoregulation mechanism balances DNA- bound and free KRP4 to control cell size-dependent cell cycle progression in the shoot apical meristem
Petra Merzan (John Innes Centre, Norwich, UK)

16:40 – 16:55

Interaction between ABA and key shoot apical meristem regulators
Adrián G. Marhuenda (IBMCP, CSIC-UV, Valencia)

17:00 – 17:30

Coffee Break

17:30 – 18:30

Poster Session (Odd numbers)

Session 3: ENVIRONMENTAL REGULATION OF DEVELOPMENT

Chairs: David Alabadí (IBCMCP, CSIC-UV, Valencia)
Myriam Calonje (IBVF, US-CSIC, Sevilla)

Invited Talk

18:30-18:55

Subnuclear partitioning underlies auxin-dependent transcriptional regulation
Jorge Hernández-García (CBGP, UPM-CSIC, Madrid)

Selected Talks

18:55-19:10

Light intensity regulates organ growth in Arabidopsis

Aina Basté Miquel (CRAG, CSIC-IRTA-UAB-UB, Bellaterra, Barcelona)

- 19:10-19:25 *Genome-wide dynamics of gene expression and chromatin accessibility during the floral transition in the shoot apical meristem*
Pedro de los Reyes (Max Plank, Köln, Germany)
- 19:25-19:40 *PNUTS-like proteins scaffold the CPF phosphatase module to couple transcription termination with FLC silencing*
Andrea Sempere González (CBGP, UPM-CSIC, Madrid)
- 19:25-19:40 *2-Cys peroxiredoxins link redox regulation to proteostasis during chloroplast biogenesis in Arabidopsis seedlings*
Fernando Rodríguez Marín (IBVF, US-CSIC, Sevilla)
- 19:40-20:05 *Cell type specific responses to temperature in Arabidopsis*
Alba Llorent (IBMCP, CSIC-UV, Valencia)
- 20:15 – 22:00 **Welcome Cocktail**

Thursday July 2nd

09:00 - 10:40

Session 4: ABIOTIC STRESS

Chairs: Mónica Meijón (UniOvi, Oviedo)
Oscar Lorenzo (USAL, Salamanca)

Invited Talk

09:00 - 09:25

Decoding Multifactorial Stress Responses in Plants: Lessons from Omics Integration
Sara Izquierdo Zandalinas (UJI, Castellón)

09:25 - 09:40

Microtubule Dynamics as a Key Modulator in the Response to Heat Stress in Plants
Eva Hoyas Sánchez (BIOTECMED, UV, Valencia)

09:40 - 09:55

LEA Dehydrins Interact with Membrane-Associated Protein Complexes Contributing to Plant Water-Deficit Stress Adaptation
Norma Fábregas (Max Planck, Potsdam-Golm; IQS, Barcelona)

09:55 - 10:10

Root Stem Cell Formation Under Abiotic Stress: Implications for Telomere Dynamics
Enrico Tampelloni (CBGP, UPM-CSIC, Madrid)

10:10 - 10:25

The Compartmentalized Metabolism of Hydrogen Sulfide Coordinates Redox Signaling, Autophagy, and Stress Tolerance
Reyes Carrillo (IBVF, CSIC, Sevilla)

10:25 - 10:40

DNA Methylation Underlies Organ and Stress Specific Responses and Reveals Sensitivity of Organellar DNA Insertions Under Abiotic Stress
Elena Caro (CBGP, UPM-CSIC, Madrid)

10:45 – 11:15

Coffee Break

11:15 – 12:05

Keynote lecture

Decoding Nutrient Cues in Plant Developmental Decisions
Hatem Rouached (MSU, USA)

12:10 – 13:15

Even Posters Session

13:15 – 14:30

Lunch

14:30 – 16:10

Session 5: PLANT-MICROBE INTERACTIONS

Chairs: Nuria Sánchez Coll (CRAG, CSIC-IRTA-UAB-UB, Bellaterra, Barcelona)
Selena Gímenes Ibañez (CNB, CSIC, Madrid)

Invited Talk

14:30 – 14:55 *Deciphering the Molecular Basis of Cell Fate Decisions and Transcriptional Heterogeneity in Spore Populations of the Rice Blast Fungus Magnaporthe oryzae*
Miriam Osés (UPNA, Pamplona)

Selected Talks

14:55 – 15:10 *Direct Connections between the Circadian Oscillator and JA Signaling Shape Plant Immunity Rhythms Daily*
Rosa Salazar Vergara (IBMCP, CSIC-UV, Valencia)

15:10 – 15:25 *Impact of Developmental Diversification in Plant Immunity*
Ignacio Rubio Somoza (CRAG, CSIC-IRTA-UAB-UB, Bellaterra, Barcelona)

15:25 – 15:40 *Elucidating the Role of UMAMIT Amino Acid Transporters in the Medicago truncatula-Sinorhizobium meliloti Symbiosis*
Estibaliz Larrainzar (UPNA, Pamplona)

15:40 – 15:55 *m⁶A RNA Methylation Regulates Plant Growth Responses to Microbial Volatiles through Growth-Defense Trade-Offs*
Rafael JL Morcillo (IHSM, CSIC-UMA, Málaga)

15:55 – 16:10 *ATHENA/MEE39 Receptor Kinase Mediates Cell Wall Integrity Surveillance during Root Vascular Pathogen Infection*
Clara Sánchez Rodríguez (ETH, Zurich, Switzerland; CBGP, UPM-CSIC, Madrid)

16:15 – 16:45 Coffee break

16:45 – 18:15 Public-Private Partnership in Plant Research (Biovegen)

Chair: Gonzaga Ruiz de Gauna.

16:45 – 16:55 Bienvenida e introducción

16:55 – 17:15 Situación y perspectivas de la legislación en cultivos NGT
Leire Escajedo (EHU, Leioa, Spain)

17:15 – 18:00 Empresas agrobio tecnológicas (protección cultivos, nutrición vegetal, mejora genética, herramientas para edición genómica)

- TIMAC AGRO - Berta Rodríguez. Coordinadora Científica.
- CRISPR QC - Juan José Ripoll. Jefe del Consejo Asesor en agrobiotecnología (UMH, Elche)
- DNA ADVISORY SERVICES/SWAN LAAB/THODO. Xana Belastegui. Directora de desarrollo de negocio.
- BIOPREDX. Javier Sancho. Catedrático de Bioquímica. Universidad de Zaragoza

18:00 – 18:15 Coloquio / Ronda de preguntas

18:30 – 19:30 SEBP general assembly

20:45 Gala dinner (Jauregia, Palacio Euskalduna) + Party (Dike1)

Friday July 3rd

09:30 – 11:10

Session 6: PLANT BIOTECHNOLOGY

Chairs: Ana Caño Delgado (CRAG, CSIC-IRTA-UAB-UB, Bellaterra, Barcelona)
Sonia Osorio (IHSM, UMA-CSIC, Málaga)

Invited talk

09:30 – 09:55

Designed Small Molecules for Plant Biotechnology
Jorge Lozano Juste (IBMCP, CSIC-UV, Valencia)

Selected talks

09:55 – 10:10

Hormonal Orchestration of Arabidopsis Defense Against Two-Spotted Spider Mite Tetranychus urticae
Berivan Ozlem Gumus (UJI, Castellón)

10:10 – 10:25

Hidden Peptides in Flowering Control: sORF-Encoded Regulators in Lupinus albus
Irene Moreno Sanguino (UV, Valencia)

10:25 – 10:40

Engineering the Catalytic Components of the Molybdenum Nitrogenase in Rice Chloroplasts
German Alonso Tolo (CBGP, UPM-CSIC, Madrid)

10:40 – 10:55

Formation of Plastidial Condensates Repress the Activity of a Key Enzyme of Tyrosine Biosynthesis
Jorge El-Azaz (University of Wisconsin-Madison, USA; IBMCP, UV-CSIC, Valencia)

10:55-11:10

Unraveling Strawberry Ripening: The TALE Behind the Process
María Blanco (IHSM, UMA-CSIC, Málaga)

11:15 – 11:45

Coffee Break

Session 7: SYSTEMS BIOLOGY AND TECHNOLOGICAL TOOLS

Chairs: Jose Tomás Matús (I2SYSBIO, UV-CSIC, Paterna, Valencia)
José María Jiménez Gómez (CBGP, UPM-CSIC, Madrid)

Invited Talk

11:45 – 12:10

Breaking the Code: Crosstalk Between Pathogen Effectors and Plant Immunity for Precision Disease Management
Beatriz Orosa Puente (USC, A Coruña; University of Edinburgh, UK)

Selected Talks

12:10 – 12:25 *Decoding PAN-Dependent Transcriptional Networks in the Root Stem Cell Niche*
Sara Gómez Jiménez (CIALE, USAL, Salamanca)

12:25 – 12:40 *S²-PepAnalyst: A Web Tool for Predicting Plant Small Signalling Peptides*
Ian Morilla (Univ. Sorbonne-CNRS, Paris; IHMS, UMA-CSIC, Málaga)

12:40 – 12:55 *Deciphering ER-mitochondria-Chloroplast interactions in Arabidopsis*
Elena Sánchez Martín-Fontecha (VIB-UGent, Belgium)

Closing Keynote Talk

13:00 – 13:50 *Transport engineering of glucosinolates and the transportomics initiative*
Barbara Ann Halkier (University of Copenhagen, Denmark)

13:50 – 14:15 RBMP Closure

Post-meeting Social Event (only for those who selected it during registration)

19:00 – 21:00 Boat Trip