

XII Reunión Biología Molecular de Plantas

CARTAGENA 11-13 de junio de 2014

Programa Científico

Miércoles 11 junio

15:00-15:15. **Apertura. Rector de la Universidad Politécnica de Cartagena.** Excmo. y Magfco. Sr. D. José Antonio Franco Leemhuis

15:15-16:00. **Plenaria I.** George Coupland. Max Planck Institute for Plant Breeding Research (MPIZ), Cologne, Germany

Seasonal flowering in annual and perennial species of the Brassicaceae

Sesión I. Biotecnología. Moderador: Isabel Allona. Universidad Politécnica de Madrid

16:00-16:30. Roberto Solano- CNB (CSIC), Madrid

16:30. Concha Gómez-Mena. IBMCP (CSIC-UPV), Valencia

Male sterility and parthenocarpic fruit development in tomato

16:45. Ana Casañal. Universidad de Málaga

Binding of natural flavonoids to Strawberry Fra a Allergens suggests a role for Pathogenesis-Related 10 (PR-10) in the control of Secondary Metabolism

17:00. Mercedes Díaz-Mendoza. CBGP (UPM-INIA), Madrid

Potential association between barley leaf senescence and protein degradation/mobilization mediated by biotic/abiotic stresses

17:15-17:45. Descanso y Posters

Sesión especial. Ponencia empresas. Biovegen

Sesión BIOVEGEN Ciencia – Empresa . Gonzaga Ruiz de Gauna (BIOVEGEN)

17:45 **Mecanismos de fomento de la colaboración público-privada.** Bárbara Fernández Revuelta. Subdirectora Adjunta de Colaboración Público-Privada. MINECO

18:00 **Ayuda del CDTI al desarrollo tecnológico empresarial.** Cecilia Hernández. Departamento Salud, Bioeconomía, Clima y Recursos Naturales. CDTI

18:15 Presentaciones cortas de empresas. (10 min: actividad de la empresa, áreas y demandas tecnológicas de interés, posibilidades de colaboración, etc)

- GRUPO AGROTECNOLOGÍA. Enrique Riquelme. Director Marketing, Expansión e Innovación
- INVESEED. Claudio Vidal. Director I+D
- ARVENSIS AGRO. Jesús Fernando. Responsable de Laboratorio
- VALGENETICS. María Albiach. Directora.

19:00 Turno de preguntas

21:00. Visita al teatro romano-cóctel bienvenida

Jueves 12 junio

09:00-09:45. **Plenaria II.** Alex Webb. Department of Plant Sciences, University of Cambridge, UK

Sesión II. Mecanismos de desarrollo y diferenciación. Moderador: Miguel Ángel Blázquez. IBMCP (CSIC - UPV), Valencia

09:45-10:15. Ana I. Caño-Delgado. CRAG (CSIC – IRTA – UAB - UB), Barcelona

Telomere length dynamics in root development

10:15. Sofía Otero. CBM (CSIC - UAM), Madrid

Cell population dynamics during organogenesis revealed by visualization of the H3.1/H3.3 balance

10:30. Clara Sánchez. Max Planck Institute of Molecular Plant Physiology, Potsdam, Alemania.

Clathrin mediated endocytosis in plants: evolutionary implications of novel plant adaptors

10:45. Francisco Vera-Sirera. IBMCP (CSIC - UPV), Valencia

Control of xylem differentiation by atypical bHLH transcription factors

11:00-11:30 Café y posters

Sesión III. Estrés abiótico. Moderador: Julio Salinas. CIB (CSIC), Madrid

11:30-12:00. Antonio Leyva. CNB (CSIC), Madrid

Molecular mechanisms involved in arsenic perception

12:00. Alfonso Muñoz. CBGP (UPM-INIA), Madrid

Identification of novel proteins interacting with the translation initiation factor AtelF4E

12:15. Francisco Rubio. CEBAS (CSIC), Murcia

The F130S point mutation in the Arabidopsis high-affinity K⁺ transporter AtHAK5 increases the K⁺ over Na⁺ and Cs⁺ selectivity and confers Na⁺ and Cs⁺ tolerance to yeast

12:30 Pedro Rodríguez. IBMCP (CSIC-UPV), Valencia

Artificial allele variability and drought resistance: generation of drought tolerant transgenic barley by expressing mutated versions of the arabidopsis pyl4 aba receptor

Sesión IV. Metabolismo. Moderador: Manuel Rodríguez-Concepción. CRAG (CSIC – IRTA – UAB - UB), Barcelona

12:45-13:15. Roc Ros. Universidad de Valencia

Plant serine biosynthesis: three pathways for one amino acid

13:15. Briardo Llorente. CRAG (CSIC-IRTA-UAB-UB), Barcelona

Pigment changes during fruit development contribute to the light-mediated control of ripening

13:30. Tomas Albi. IBVF (CSIC-US), Sevilla

Biochemical characterization of Arabidopsis thaliana sucrose-6-phosphate phosphatases

13:45. Javier Pozueta IDAB (CSIC-UPN), Pamplona

Reevaluation of the role of plastidic phosphoglucose isomerase in starch biosynthesis in mesophyll cells

14:00-16:00. Posters y comida

Sesión V. Biología de la enfermedad. Moderador: Miguel Ángel Aranda

16:00-16:30. Eduardo R. Bejarano. Universidad de Málaga

Interaction of geminiviruses with the ubiquitination pathway

16:30. Sara Sopeña-Torres. CBGP (UPM-INIA), Madrid

YODA MAPK Kinase Kinase regulates a novel immunity pathway conferring broad-spectrum resistance to pathogens

16:45. Ruth Marcos, CNB (CSIC), Madrid

New activities of oxylipins, a class of lipid signals controlling plant defense and cell wall integrity

17:00. Pedro Martínez-Gómez . CEBAS (CSIC), Murcia

Gene expression analysis of the interaction between Plum pox virus (PPV) and Prunus species using high-throughput RNA sequencing (RNA-Seq)

17:15-18:00. Café + posters

Sesión VI. Especies de interés industrial. Moderador: Pilar Cubas. CNB (CSIC), Madrid

18:00-18:30. Jose María Jiménez. Max Planck Institute for Plant Breeding Research (MPIZ), Cologne, Germany

Natural variation in circadian rhythms suggests effect of domestication on the circadian clock of tomato

18:30. Luis Valledor. University of Vienna

System Level Network Analysis of Nitrogen Starvation and Recovery in Chlamydomonas reinhardtii reveals new targets for increased lipid accumulation

18:45. M. Luisa Hernández. Instituto de la Grasa (CSIC), Sevilla

Olive oil genomics: transcriptional analysis of olive fruit mesocarp and seed tissues to identify key genes involved in oil accumulation and fatty acid composition

19:00. Juan Jesús Molina. Universidad de Málaga

Transcript profiling of wood transcriptional regulators, wood chemistry and phenotyping in poplar and eucalyptus genotypes growing under drought, salinity and limiting nitrogen conditions

20.00 Cena en La Manga

Viernes 13 junio

09:00-09:45. **Plenaria III.** Paloma Mas. CRAG (CSIC-IRTA-UAB-UB), Barcelona.

Circadian clock regulation and function: a question of time

Sesión VII. Regulación ambiental del desarrollo. Moderador: Jaume Martínez. CRAG (CSIC-IRTA-UAB-UB), Barcelona

09:45-10:15. David Posé. Max Planck Institute for Developmental Biology, Tübingen, Germany; Present address: IHSM (CSIC-UMA), Málaga

Temperature-dependent regulation of flowering time in *Arabidopsis thaliana*

10:15. Mohamad Abbas. IBMCP (CSIC-UPV), Valencia

O2 sensing modulates photomorphogenesis

10:30. Marçal Gallemí. CRAG (CSIC-IRTA-UAB-UB), Barcelona

ATHB4, a transcription factor that regulates the Shade Avoidance Syndrome by an independent DNA-binding activity

10:45. M. Isabel Ortiz-Marchena. IBVF (CSIC-US), Sevilla

Photoperiodic control of carbon distribution during the floral transition in *Arabidopsis thaliana*

11:00-12:00. Café y posters

Sesión VIII. Transducción de señal. Moderador: Pedro Luís Rodríguez. IBMCP (CSIC-UPV), Valencia

12:00-12:30. Armando Albert. IQFR (CSIC), Madrid

The structure of the SnRK2, SnRK3, PP2C and PYR/PYL signaling network provides a framework for the design of new agonists and antagonists to fight against abiotic stress

12:30. Irene García. IBVF (CSIC-US), Sevilla

The signaling role of cyanide in plants

12:45. Juan A. López-Ráez. EEZ (CSIC), Granada

Differential expression of carotenoid cleavage dioxygenases (CCDs) regulates strigolactone and other apocarotenoid fluxes during arbuscular mycorrhiza symbiosis

13:00. Vicente Rubio. CNB (CSIC), Madrid

Abscisic acid and ubiquitination: two contenders in the control of the stability of abscisic acid receptors

13:15-13:30. **Clausura**