

PROGRAMA / PROGRAM FV2015

Día 14 - DOMINGO / SUNDAY 14

12.00 – 16.00	Registro / Registration
18.00 – 19.15	Conferencia Inaugural / Opening Conference: Ben Scheres “Auxin: dealing with signal and noise”
19.30 – 21.00	Cóctel de bienvenida / Welcome cocktail

Día 15 – LUNES / MONDAY 15

09.00 – 10.45	Sesión 1. Fisiología Vegetal Aplicada Session 1. Applied Plant Physiology	
	Chairs: Javier Sampedro & Francisco Cánovas	
	Conferencia Plenaria I / Plenary Conference I: Dominique van der Straeten “Folate biofortification of staple crops”	
	- Epigenomic traits and biotechnological tools for UV-tolerant genotypes selection and cloning in <i>Pinus radiata</i> D. Don. María Jesús Cañal	
	- Genomics and biotechnology of nitrogen metabolism in forest trees. Francisco Cánovas	

10.45 – 11.15 Pausa – Cafés / Coffee Break

11.15 – 12.30	Sesión 2. Nutrición Mineral Session 2. Mineral Nutrition	Sesión 3. Interacciones bióticas Session 3. Biotic Interactions
	Chairs: Javier Paz-Ares & Marta Vasconcelos	Chairs: Pablo Vera & Carmen Castresana
	- Phosphate starvation signaling in plants. Javier Paz-Ares - The ins and outs of iron uptake and remobilization: towards a better understanding of the mechanisms underlying iron nutrition in soybean. Marta Vasconcelos	- Activities of oxylipins as regulators of cell wall-based defense. Carmen Castresana - Integrated responses of arbuscular mycorrhizae to nutritional and biotic stresses: new challenges in metabolic and molecular studies. Victor Flors
12.30 – 12.42	1. Ethylene and reactive oxygen species (ROS) may be involved in the induction of the high-affinity K ⁺ uptake system <i>LeHAK5</i> of tomato. Reyes Ródenas Castillo	1. Analysis of a plant complex resistance gene locus underlying immune-related hybrid incompatibility and its occurrence in nature. Rúben Alcázar Hernández
12.42 – 12.54	2. <i>MtNramp1</i> is responsible for iron uptake by rhizobia infected cells in <i>Medicago truncatula</i> nodules. Manuel González Guerrero	2. Early Arabidopsis responses to <i>Tetranychus urticae</i> feeding: local vs. systemic responses. Cristina Rioja

12.54 – 13.06

3. Possible role of glutamine synthetase of the prokaryotic type (GSI-like) in nitrogen signaling in *Medicago truncatula*. **Helena Carvalho**

3. Studying gene repression mechanisms in the galls induced by phyto-endoparasitic nematodes. **Javier Cabrera**

13.06 – 13.18

4. The problems of living in the sea: the uptake of inorganic carbon and nutrients in *Posidonia oceanica* (L.) Delile. **Lourdes Rubio**

4. Viral strain-specific differential alterations in Arabidopsis developmental patterns. **Fernando Ponz Ascaso**

13.18 – 13.30

5. Roles of Boron during the evolution of photosynthetic eukaryotes: is the micronutrient required for N-glycosylation? **Isidro Abreu Sánchez**

5. Zinc synergistically enhances the JA-ET dependent signalling pathway in compatible and incompatible interactions of Arabidopsis with *Alternaria brassicicola*. **Catalina Cabot Bibiloni**

13.30 – 15.30

Pausa – Comida y visitas a pósters / Lunch Break and poster viewing

Sesión 4. Plantas y el Medio Ambiente
Session 4. Plants and the Environment

Sesión 5. Metabolismo, Bioquímica y Biología Sintética
Session 5. Metabolism, Biochemistry & Synthetic Biology

Chairs: **Juan J Irigoyen & José I. García Plazaozola**

Chairs: **Albert Boronat & M. Angeles Pedreño**

15.30 – 16.45

- Cell wall thickness and chloroplast distribution at the crossroad: an evolutionary trade-off between photosynthesis and desiccation tolerance? **Jaume Flexas**
- Towards a new plant cuticle model. **Victoria Fernández**

- Saffron as a colorful tool for biotechnological applications. **Lourdes Gómez-Gómez**
- The initiation of the starch granule in plants. **Ángel Mérida**

16.45 – 16.57

1. Assessing the role of a *Quercus suber* omega-3 fatty acid desaturase in the response to biotic and abiotic stresses. **Ana Leal**

1. Plant cell factories as biological platforms to obtain insights into plant secondary metabolism: a new gene encoding a b-phenylalanine-CoA ligase involved in taxol biosynthesis. **Karla Ramírez Estrada**

16.57 – 17.09

2. CO₂ enrichment inhibits N assimilation and leads to photosynthetic acclimation in nitrate deficient durum wheat grown hydroponically. **Rubén Vicente Pérez**

2. Plastidic phosphoglucose isomerase is an important determinant of starch accumulation in mesophyll cells, growth, photosynthetic capacity, and biosynthesis of plastidic cytokinins in Arabidopsis. **Abdellatif Bahaji**

17.09 – 17.21

3. Early, non-destructive evaluation of drought tolerance in soybean. **Luis Aguirre**

3. Respiratory processes in non-photosynthetic plastids. **Marta Renato Sánchez**

17.21 – 17.33

4. The nutraceutical quality of differently pigmented lettuce cultivars can be changed growing at high light or elevated CO₂ conditions. **Usue Pérez López**

4. S-sulfhydration: a new post-translational modification in plant systems. **Ángeles Aroca**

17.33 – 17.45

5. Understanding shade tolerance in plants: comparative genetic analyses of plant responses to vegetation proximity. **Jaime Martínez García**

5. Transcriptional analysis of ascorbic acid accumulation during development and maturation of Valencia orange fruits (*Citrus sinensis* L.). **Lorenzo Zacarías Garcis**

17.45 – 18.45

Sesión de posters I (impares) y merienda / Poster Session I (uneven numbers) and snacks

Sesión BIOVEGEN: Oportunidades de colaboración con empresas / BIOVEGEN Session: Opportunities for collaboration with companies

- Uso de microorganismos extremófilos para su uso como bioestimulante agrícola. **Borja Torres. XTREM BIOTECH.**
- Aprovechamiento y valorización de subproducto de fabricación de tableros de madera: concentrado de extractos de madera con aplicaciones agrícolas, alimentarias, bioenergéticas. **Rosa Arcas. BETANZOS HB.**
- Producción y comercialización de pistacho. **Carlos Suarez. PISTACHOS DEL SOL**
- Servicios de diagnóstico de patógenos de plantas y desarrollo de proyectos biotecnológicos a la carta. **Magda Cervera. VALGENETICS**
- Soluciones tecnológicas para ciencias de la vida, biotecnología e identificación genética. **Montse Aparicio. PROMEGA BIOTECH IBERICA**

18.45 – 19.00

Traslado al Campus de la Fábrica de Armas para la Conferencia Pública.
Transfer to the Campus de la Fábrica de Armas for the Public Conference.

19.15 – 20.45

“Cambio climático y producción mundial de alimentos: retos para la investigación en plantas “
José Manuel Moreno-Vicepresidente del IPCC
José Pío Beltrán-Presidente de EPSO

20.45

Tiempo libre / Free time for tapas or dinner in Toledo

Día 16 – MARTES / TUESDAY 16

09.00 – 10.45

Sesión 6. Temas y tecnologías emergentes en Fisiología Vegetal
Session 6. Emerging themes and techniques in Plant Physiology

Chairs: **Salomé Prat & David Alabadí**

Conferencia Plenaria II / Plenary Conference II

Holger Puchta “Breaking DNA: they key to plant genome engineering”

- A Role for telomeres in plant stem cell development. **Ana Caño**
- Reshaping the (epi) genetic landscape of the male gametophyte for genome stability and transgenerational inheritance. **Jörg Becker**

10.45 – 11.15

Pausa - Cafés / Coffee Break

11.15 – 11.30

Sesión 1. Fisiología Vegetal Aplicada (cont.)
Session 1. Applied Plant Physiology (cont.)

Chairs: **Javier Sampedro & Francisco Cánovas**

Sesión 6. Temas y tecnologías emergentes (cont.)
Session 6. Emerging themes and techniques (cont.)

Chairs: **Salomé Prat & David Alabadí**

<p>11.30 – 11.42</p> <p>11.42 – 11.54</p> <p>11.54 – 12.06</p> <p>12.06 – 12.18</p> <p>12.18 – 12.30</p>	<p>1. 5-azacytidine improves microspore embryogenesis initiation by decreasing global DNA methylation while it impairs embryo progression in rapeseed and barley. Mayte Solís González</p> <p>2. Free Amino acid profile in glyphosate-resistant and susceptible <i>Amaranthus palmeri</i> populations after glyphosate treatment. Ana Zabalza Aznárez</p> <p>3. Impact of <i>Rav1</i> engineering on biomass production of a poplar src field trial. Alicia Moreno Cortés</p> <p>4. Interplay between reactive nitrogen species (RNS) and the ascorbate metabolism in pepper fruits (<i>Capsicum annuum</i> L.) Marta Rodríguez Ruíz</p> <p>5. The role of <i>BdNAC80</i> in the regulation of secondary cell wall synthesis in <i>Brachypodium distachyon</i>. Javier Sampedro</p>	<p>1. Linking genotypes to phenotypes using non-invasive phenotyping technology. Marcus Jansen</p> <p>2. Shotgun proteomics: a tool to investigate changes in subproteomes of plants grown under stress. Javier Abadía Bayona</p> <p>3. Evolution by gene duplication of <i>Medicago truncatula</i> PISTILLATA-like transcription factors. Edelín Roque Mesa</p> <p>4. Phenotyping of plant mutants using fluorescence and thermal imaging. Matilde Barón Ayala</p>
<p>12.30 – 13.45</p>	<p>Mesa Redonda / Round Table Mujer y Ciencia/ Women in Science Chair: Mari Carmen Risueño Pilar Carbonero Matilde Barón Ana Caño</p>	<p>Mesa Redonda / Round Table Divulgacion y educación/ Education & Outreach Chair: Dolores Rodríguez José Antonio Hernández Joaquín Herrero José Manuel Palma Martinez</p>
<p>13.45 – 15.30 Pausa – Comida y visitas a pósters / Lunch Break and poster viewing</p>		
<p>15.30 – 16.45</p> <p>16.45 – 16.57</p> <p>16.57 – 17.09</p>	<p>Sesión 7. Fotosíntesis y Relaciones hídricas Session 7. Photosynthesis and Water Relations Chairs: Cristina Echevarría & Margarida Vaz</p> <ul style="list-style-type: none"> - Using greenhouses to simulate climate change scenarios and applications in studies of photosynthesis and water relations. Fermín Morales - Disruption of <i>cFBP</i> and <i>cyFBP</i> genes reveals metabolite changes and different levels of gene and protein regulation in <i>Arabidopsis thaliana</i>. Mariam Sahrawy <p>1. Effect of irrigation on desert truffle mycorrhizal plants in field. Asun Morte Gómez</p> <p>2. Energy sinks in <i>Trebouxiophyceae</i> microalgae. Alfredo Guéra Antolín</p>	<p>Sesión 8. Biología de sistemas y ómicas Session 8. Systems Biology and Omics Chairs: Roberto Solano & José Luis Micol</p> <ul style="list-style-type: none"> - The draft assembly and annotation of the cork oak (<i>Quercus suber</i> L.) genome. Marcos Ramos - Towards deciphering the transcription factor bindome in plants. José Manuel Franco <p>1. Progress on ecophysiological and metabolomic studies of <i>Vochysia tucanorum</i> Mart. grown in soils with different availability of aluminum. Marcelo Claro de Souza</p> <p>2. A transcriptomic analysis of tomato plant sensitivity to ethylene and its response to two different Plant Growth-Promoting Rhizobacteria (PGPR) strains. Pablo Ibor Pereda</p>

17.09 – 17.21	3. Liquid interactions and physico-chemical properties of holm oak leaf and elm samara surfaces. Paula Guzmán Delgado	3. GAPCp contribution to plant development: how very cell-specific expression can drive growth. Djoro Armand Anoman
17.21 – 17.33	4. Partitioning changes in stomatal conductance and leaf water potential into contributions from hydraulic and non-hydraulic factors. Celia M. Rodríguez Domínguez	4. Genetical genomics of adventitious root formation in carnation cuttings. José Manuel Pérez Pérez
17.33 – 17.45	5. Physiological and ornamental aspects of tolerance in <i>Callistemon laevis</i> plants exposed to salinity, deficit irrigation and both stresses combined. Sara Álvarez Martín	5. Antioxidant profile of a pioneer plant species colonising mine tailings in southeast Spain. Antonio López Orenes
17.45 – 18.45	Sesión de pósters II (pares) y merienda / Poster Session II (even numbers) and snacks	
19.00 – 20.00	Asamblea de la SEFV / General Assembly SEFV	
21.00 – 00.00	Relax, bebidas y Cena Oficial en el Cigarral Cigarral de las Mercedes Chill-out , drinks & Oficial Dinner at the Cigarral de las Mercedes	

Día 17 – MIERCOLES / WEDNESDAY 17		
	Sesión 9. Estrés Abiótico Session 9. Abiotic stress	Sesión 10. Desarrollo Session 10. Development
09.45 – 11.00	Chais: Aurelio Gómez Cadenas y Margarida Oliveira <ul style="list-style-type: none"> - Cross-talks between the control of flowering time and the response to salinity stress in Arabidopsis. José Manuel Pardo - Novel post-transcriptional mechanisms involved in plant tolerance to abiotic stress. Julio Salinas 	Chairs: Jaume Martínez García & Isabel Allona <ul style="list-style-type: none"> - Nitric oxide (NO), phytohormones and the control of early plant development. Óscar Lorenzo - Dynamics of strigolactone perception and signaling during Arabidopsis development. Pilar Cubas
11.00 – 11.30	Pausa –Café / Coffee Break	
	Continuación Sesión 9 Continuation Session 9	Continuación Sesión 10 Continuation Session 10
11.30 – 11.42	1. C1A peptidases actively participate in the barley leaf senescence events driven by abiotic stress. Mercedes Díaz Mendoza	1. Down-regulation of a pectin acetyltransferase gene modifies strawberry fruit cell wall pectin structure and increases fruit firmness. Antonio Javier Matas Arroyo
11.42 – 11.54	2. Cd induces antioxidant enzymatic response and phytochelatin synthesis in <i>Spinacea oleracea</i> plants. Filipa Pinto	2. Novel gene functions required for adventitious root development. Ana Belén Sánchez García
11.54 – 12.06	3. Role of peroxisomes and reactive oxygen species in abiotic stress	3. <i>POTENT</i> is a regulator of postembryonic organogenesis in <i>Arabidopsis</i>

12.06 – 12.18	perception. Luisa Maria Sandalio González 4. Unraveling the complexity of drought response: ZmSTOP1 transcription factor identified as OST1 substrate affects root growth and stomatal regulation in response to ABA. Elena Nájjar	<i>thaliana</i> . Juan Periañez 4. The hypomorphic <i>spch-5</i> allele reveals novel features of a master positive regulator of stomatal development in Arabidopsis. Alberto de Marcos Serrano
12.18 – 12.30	5. Water stress promotes ABA transport from leaves to roots in Citrus plants. Matías Manzi	5. Tissue-specific molecular mechanisms of gibberellin signalling during seed germination. Luis Oñate Sánchez
Sesión de Clausura/ Closing Session		
Conferencia Premio SABATER 2015/ Conference by SABATER 2015 awardee		
12.30 – 14.00	Miguel de Lucas "Epigenetic dynamics during plant development" Entrega de premios del congreso FV2015, anuncios y clausura FV2015 congress awards, announcements and closure	
14.00 – 15.30	Comida bufé y Fin Del Congreso / Buffet lunch and End of the Congress	
18.00 - 20.00	Visita a las Termas Romanas, las Cuevas de Hércules, la Iglesia San Sebastián y Baños de Tenerías Tour to Termas Romanas (Roman Baths), the Caves of Hércules, the San Sebastián Church and Baños de Tenerías (Tenerías Baths)	