

Wednesday 26th June

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| 8:00 | REGISTRATION | |
| 9:00 | WELCOME (Cámara Hall) | |
| | OPENING CONFERENCE (Cámara Hall) | |
| 9:30 | Natalia Dudareva (Center for Plant Biology, Purdue University, USA) <i>"Learning from nature: new function of volatile terpenoids"</i> | |
| 10:15 | Coffee break and poster view | |
| 11:15 | Session 1. Metabolism and Biochemistry (Cámara Hall) | Session 2. Applied Plant Physiology and Molecular Breeding (Luneta Hall) |
| | Chairperson: Manuel Rodríguez Concepción | Chairpersons: Antonio Díaz Espejo and Carlota Vaz Patto |
| | KEYNOTE LECTURE | KEYNOTE LECTURE |
| | Mohammed-Reza Hajirezaei (Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany) <i>"The role of central metabolism in plant productivity: growth vs. defense"</i> | Antonio Díaz Espejo (Instituto de Recursos Naturales y Agrobiología, Sevilla) <i>"The role of plant ecophysiology in the precision agriculture of the future"</i> |
| | ORAL COMMUNICATIONS | ORAL COMMUNICATIONS |
| 11:55 | José Manuel Palma Martínez <i>"Characterization of lipoxygenase (LOX) activity in pepper fruits containing diverse capsaicin levels"</i> | Carolina Royo Brun <i>"Identification of a missense mutation in the MADS-box gene VviAGL11 responsible for table grape seedlessness"</i> |
| 12:15 | José Antonio Monreal Hermoso <i>"Phosphoenolpyruvate carboxylase 3 (SbPPC3) silencing in sorghum plants (Sorghum bicolor L.) and its role in salt stress"</i> | Pilar Sánchez Testillano <i>"Small molecule epigenetic modulators to improve somatic embryogenesis yield for regeneration and breeding of cork oak"</i> |
| 12:35 | Igor Delfin Florez Sarasa <i>"In vivo regulation of alternative respiration during tomato fruit ripening"</i> | Adela M Sánchez Moreiras <i>"Phytotoxicity of the secondary metabolite eugenol. Effects on Golgi system and microtubule morphology"</i> |
| 12:55 | Isabel Abreu <i>"OsCPK17 targets the modulation of rice metabolism during the response to cold stress"</i> | Raquel Esteban Terradillos <i>"Integrating metabolites and optical techniques to predict nutritional outcome: towards a nutrition-sensitive production"</i> |
| 13:15 | Lunch break and poster view | |
| | YOUNG PEOPLE IN PLANT SCIENCE (Cámara Hall) | INNOVATION TOOLS: PUBLIC AND PRIVATE OVERVIEWS (Luneta Hall) |
| 14:45 | Sara García Hualde, Díego Orzáez <i>Sponsored by:</i>  | Gonzaga Ruiz de Gauna |
| 16:00 | SCIENTIFIC DISSEMINATION (Cámara Hall) Matilde Barón | ROUND TABLE: Women in Science (Luneta Hall) Carmen Fenoll |
| 17:00 | Coffee break and poster view | |

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| 18:00 | Session 4. Ecophysiology and climate change (Luneta Hall) | Session 5. Interaction of plants with other organisms (Cámara Hall) |
| | Chairpersons: Mari Carmen Antolín and María Conceição Caldeira | Chairpersons: Isabel Díaz and Ainhoa Martínez-Medina |
| | KEYNOTE LECTURE | KEYNOTE LECTURE |
| | Maria Conceição Caldeira (School of Agriculture, University of Lisbon) <i>"Coupled shrub invasion and extreme drought reduce the functioning and resilience of evergreen Mediterranean oak woodlands"</i> | Víctor Flors (Universitat Jaume I, Castellón) <i>"Root to shoot communications in arbuscular mycorrhizal tomato coordinating responses against Botrytis cinerea"</i> |
| | ORAL COMMUNICATIONS | ORAL COMMUNICATIONS |
| 18:40 | Ricardo Aroca <i>"Phenotypic and molecular traits determine the tolerance of olive trees to drought stress"</i> | Francisca Blanco-Herrera <i>"Homogalacturonan status modulation through PME/PMEI13 is a key component of Arabidopsis defense during the early stage of infestation by Myzus persicae"</i> |
| 19:00 | Marcos Viejo Somoano <i>"Embryonic epigenetic memory drives the rapid adaptation of Norway spruce to progressive environmental warming"</i> | Virginia Ruiz Ferrer <i>"Epigenetic processes and central genes for plant development are altered during the novo-organogenesis of nematode-induced feeding sites"</i> |
| 19:20 | Marouane Baslam <i>"Insights into the mechanisms involved in the improvement of yields and quality of Rice exposed to volatile compounds emitted by phytopathogens under climate change scenarios"</i> | Ana Arnaiz Alonso <i>"Plant defenses against pests driven by a bidirectional promoter"</i> |
| 19:40 | Emilio Luis Marcos Barbero <i>"Wheat diversity and climate change: Impact of elevated CO₂ concentration and temperature on central metabolism and grain nutritional quality"</i> | Leyre Pescador Azofra <i>"Nitric oxide: the good or the bad guy?"</i> |
| 20:30 | WELCOME COCKTAIL (Cathedral of Pamplona) and music by SUAKAI (https://www.suakai.com/) | |

Thursday 27th June

PLENARY CONFERENCE (Cámara Hall)

8:00

Pierdomenico Perata (Scuola Superiore Sant'Anna, Pisa, Italy)
"Plants under hypoxia: occurrence, signaling, adaptation"

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| 9:00 | Session 6. Photosynthesis, water relations and crop production (Luneta Hall) | Session 7. Abiotic stress (Cámara Hall) |
| | Chairperson: Jorge Miguel Luz da Silva | Chairpersons: Juan Carlos Pozo |
| | KEYNOTE LECTURE | KEYNOTE LECTURE |
| | Jaume Flexas (Universitat de les Illes Balears, Palma) <i>"Searching for the perfect mesophyll: a trade-off between productivity and stress resistance?"</i> | Julio Salinas (Centro de Investigaciones Biológicas-CSIC, Madrid) <i>"Novel regulatory mechanisms in plant tolerance to abiotic stress"</i> |
| | ORAL COMMUNICATIONS | ORAL COMMUNICATIONS |
| 9:40 | M^a Carmen Ruiz Sánchez <i>"Stomatal conductance under postharvest water deficits in nectarine trees"</i> | Ramiro Lascano <i>"ROS, redox changes and stress responses in plants"</i> |
| 10:00 | Andreia Garrido <i>"Photosynthesis of grape berry tissues under kaolin film application at canopy"</i> | José Eduardo González-Pastor <i>"Improvement of acid pH resistance of Arabidopsis thaliana by expressing genes isolated from acidophilic bacteria"</i> |
| 10:20 | Cintia Florencia Marchetti <i>"Using a novel image method based on the canopy height of barley populations to study cytokinin-mediated tolerance under water stress"</i> | Charlotte Poschenrieder <i>"Allelic variants of HKT1.1 as key players in local adaptation of Arabidopsis thaliana to moderate and fluctuating soil salinity levels"</i> |
| 10:40 | Luca Morelli <i>"Photophysiology of plants with divergent responses to vegetation proximity"</i> | Borja Belda Palazón <i>"PYL8 mediates ABA perception in the root through non-cell autonomous and ligand stabilization based mechanisms"</i> |
| 11:00 | GENERAL ASSEMBLY SEFV (Cámara Hall) | Coffee break and poster view |
| 12:30 | Session 8. Biofertilizers, biostimulants and mineral nutrition (Cámara Hall) Sponsored by:  | Session 9. Systems Biology and Omics (Luneta Hall) |
| | Chairperson: Ricardo Aroca | Chairpersons: María Jesús Cañal and Isabel Abreu |
| | KEYNOTE LECTURE | KEYNOTE LECTURE |
| | Cristina Cruz (Faculty of Sciences, University of Lisbon) <i>"The physiology of symbiotic plant nutrition"</i> | Luis Valledor (Universidad de Oviedo) <i>"When the tree let us see the forests: deciphering abiotic stress responses and adaption mechanisms in pine trees by population systems biology"</i> |

| | ORAL COMMUNICATIONS | ORAL COMMUNICATIONS |
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| 13:10 | Fátima Míguez Cano <i>"Phytoremediation and bioaugmentation: An appropriate tool for increasing soil health and plant cover in contaminated vacant lands"</i> | Luis Andrade <i>"Low temperature greatly impacts the diurnal transcriptional dynamics in rice"</i> |
| 13:30 | Daniel Marino Bilbao <i>"Deciphering new aspects of monocots response to ammonium nutrition through an integrative approach using Brachypodium distachyon as a model"</i> | Francisco Ortigosa Peña <i>"Transcriptomics of ammonium nutrition in the conifer Pinus pinaster Aiton"</i> |
| 13:50 | Juan Carlos del Pozo Benito <i>"Revealing new insights into root responses to phosphate starvation"</i> | Laura Lamelas <i>"Crying for help: nuclei-chloroplast crosstalk under high temperatures in Pinus radiata"</i> |
| 14:10 | Lydia Ugena Garcia - Consuegra <i>"Characterization of biostimulants using a novel high-throughput screening approaches in plants under different stress conditions "</i> | Ana Rita Cavaco <i>"The battlefield in grapevine apoplast: uncovering lipid signaling events"</i> |
| 15:00 | LUNCH (Restaurante Castillo de Gorraiz) | |
| 19:00 | GUIDED VISIT TO PAMPLONA | |
| 21:30 | OFFICIAL DINNER AT HOTEL TRES REYES AND DJ!! | |

Friday 28th June

PLENARY CONFERENCE (Cámara Hall)

8:00

Harro Bouwmeester (University of Amsterdam, The Netherlands)

"Communication of plants with their environment: the role of strigolactones"

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| 9:00 | Special session. This is my idea, this is my project, this is my company (Cámara Hall) <i>Sponsored by:</i>  | Session 10. Growth and Development (Luneta Hall) |
| | Chairpersons: Nora Alonso and Arjen van Tunen | Chairperson: Óscar Lorenzo and María Manuela Costa |
| | KEYNOTE LECTURE | KEYNOTE LECTURE |
| | Arjen van Tunen (KeyGene, Wageningen, The Netherlands) <i>"Breakthrough Innovations for better and healthier crops"</i> | Karel Dolezal (Palacký University, Olomouc, Czech Republic) <i>"Development and applications of new methods and tools for plant hormone research: from synthesis to analysis and back again"</i> |
| | ORAL COMMUNICATIONS | ORAL COMMUNICATIONS |
| 9:40 | Miquel Ribas <i>"In your field or in your lab? PhysPlantLab performs ecophysiological analyses for you"</i> | Lorena Norambuena <i>"Arabidopsis root organogenesis upon the control of endomembrane trafficking in Arabidopsis thaliana"</i> |
| 10:00 | Antonio Molina <i>"PlantResponse Biotech: from the lab to the farmers and beyond"</i> | Sara Coelho <i>"Unravelling the ancestral function of MYB-like genes in Marchantia polymorpha"</i> |
| 10:20 | Francisco Codoñer <i>"R&D services to understand biological systems"</i> | Ignacio Ezquer <i>"New insights into SEEDSTICK: a master regulator of development, metabolism and cell wall structure in the Arabidopsis seed coat"</i> |
| 10:40 | Nora Alonso and Xana Belastegui <i>"Do you like the challenges? Fund a biotech"</i> | Pedro Pastor Andreu <i>"Filling the gaps to understand plant responses to vegetation proximity: genetic, spatial and temporal regulation"</i> |
| 11:00 | Coffee break and poster view | |
| 12:00 | Session 11. Plant Biotechnology and Synthetic Biology (Cámara Hall) | Session 3. Signaling (Luneta Hall) |
| | Chairpersons: Iraida Amaya and Susana Araújo | Chairpersons: Pedro Rodríguez Egea and Andrea Chini |
| | KEYNOTE LECTURE | KEYNOTE LECTURE |
| | Antonio Granell (Instituto de Biología Molecular y Celular de Plantas, Valencia) <i>"The nutritional-flavor composition network in tomato and its modification"</i> | Irene García Instituto de Bioquímica Vegetal y Fotosíntesis (Sevilla) <i>"Cyanide-mediated signaling in Arabidopsis"</i> |

| | ORAL COMMUNICATIONS | ORAL COMMUNICATIONS |
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| 12:40 | Iraida Amaya Saavedra <i>"Independent mutations in a single locus, the transcriptional factor MYB10, control natural variation in fruit color among Fragaria species"</i> | Pedro Luís Rodríguez Egea <i>"E3 ubiquitin ligases that mediate turnover of ABA signaling core components regulate stress response"</i> |
| 13:00 | María Luisa Hernández Jiménez <i>"Functional genomics of the formation of volatile compounds responsible for the virgin olive oil aroma"</i> | Andrea Chini <i>"When Chemistry meets Biology: identification of a novel OPR3-independent pathway for JA biosynthesis"</i> |
| 13:20 | Lucía Jordá Miró <i>"Expression of the constitutive active MAP3K YODA from Arabidopsis thaliana in Solanum lycopersicum confers enhanced resistance to bacteria"</i> | Inmaculada Sánchez Vicente <i>"Reversible S-nitrosylation controls fatty acid storage during embryo development"</i> |
| 13:40 | María Ancín Rípodas <i>"Thioredoxin m overexpression in chloroplasts alters carbon and nitrogen partitioning in tobacco plants"</i> | Lara García Campa <i>"Crosstalk between chloroplast kinase CSK and related sigma factors confer increased tolerance to UV-B radiation in Arabidopsis and Pinus radiata"</i> |
| 14:00 | LUNCH | |
| 15:30 | CLOSING SESSION (Cámara Hall): Sabater Conference by Sabater awardee Sara Izquierdo Zandalinas <i>"Local and systemic signaling during acclimation to different environmental conditions."</i> | |
| 16:15 | FV2019 congress awards, announcements and closure (Cámara Hall) | |