

## SCIENTIFIC PROGRAM

### Wednesday 26<sup>th</sup> June

08:00	<b>REGISTRATION</b>	
09:00	<b>WELCOME</b> (Cámara Hall)	
09:30	<b>OPENING CONFERENCE</b> (Cámara Hall)	
	<b>Natalia Dudareva</b> (Center for Plant Biology, Purdue University, USA) <i>"Learning from nature: new function of volatile terpenoids"</i>	
10:15	<b>Coffee break and poster view</b> Sponsored by: 	
11:15	<b>Session 1. Metabolism and Biochemistry</b> (Cámara Hall)	<b>Session 2. Applied Plant Physiology and Molecular Breeding</b> (Luneta Hall)
	<b>Chairperson:</b> Manuel Rodríguez Concepción	<b>Chairpersons:</b> Antonio Díaz Espejo and Carlota Vaz Patto
	<b>KEYNOTE LECTURE</b>	<b>KEYNOTE LECTURE</b>
	<b>Mohammed-Reza Hajirezaei</b> (Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany) <i>"The role of central metabolism in plant productivity: growth vs. defense"</i>	<b>Antonio Díaz Espejo</b> (Instituto de Recursos Naturales y Agrobiología, Sevilla) <i>"The role of plant ecophysiology in the precision agriculture of the future"</i>
	<b>ORAL COMMUNICATIONS</b>	<b>ORAL COMMUNICATIONS</b>
11:55	<b>José Manuel Palma Martínez</b> <i>"Characterization of lipoxygenase (LOX) activity in pepper fruits containing diverse capsaicin levels"</i>	<b>Carolina Royo Brun</b> <i>"Identification of a missense mutation in the MADS-box gene VviAGL11 responsible for table grape seedlessness"</i>
12:15	<b>José Antonio Monreal Hermoso</b> <i>"Phosphoenolpyruvate carboxylase 3 (SbPPC3) silencing in sorghum plants (Sorghum bicolor L.) and its role in salt stress"</i>	<b>Pilar Sánchez Testillano</b> <i>"Small molecule epigenetic modulators to improve somatic embryogenesis yield for regeneration and breeding of cork oak"</i>
12:35	<b>Igor Delfin Florez Sarasa</b> <i>"In vivo regulation of alternative respiration during tomato fruit ripening"</i>	<b>Adela M Sánchez Moreiras</b> <i>"Phytotoxicity of the secondary metabolite eugenol. Effects on Golgi system and microtubule morphology"</i>
12:55	<b>Isabel Abreu</b> <i>"OsCPK17 targets the modulation of rice metabolism during the response to cold stress"</i>	<b>Raquel Esteban Terradillos</b> <i>"Integrating metabolites and optical techniques to predict nutritional outcome: towards a nutrition-sensitive production"</i>
13:15	<b>Lunch break and poster view</b>	
14:45	<b>YOUNG PEOPLE IN PLANT SCIENCE</b> (Cámara Hall) <b>Sara García Hualde, Diego Orzáez</b> Sponsored by:  	<b>INNOVATION TOOLS: PUBLIC AND PRIVATE OVERVIEWS</b> (Luneta Hall) <b>Gonzaga Ruiz de Gauna</b>
16:00	<b>SCIENTIFIC DISSEMINATION</b> (Cámara Hall) <b>Matilde Barón</b>	<b>ROUND TABLE: Women in Science</b> (Luneta Hall) <b>Carmen Fenoll</b>
17:00	<b>Coffee break and poster view</b>	

18:00	<b>Session 4. Ecophysiology and climate change</b> ( Luneta Hall)	<b>Session 5. Interaction of plants with other organisms</b> (Cámara Hall)
	<b>Chairpersons:</b> Mari Carmen Antolín and María Conceição Caldeira	<b>Chairpersons:</b> Isabel Díaz and Ainhoa Martínez-Medina
	<b>KEYNOTE LECTURE</b>	<b>KEYNOTE LECTURE</b>
	<b>Maria Conceição Caldeira</b> (School of Agriculture, University of Lisbon) <i>"Coupled shrub invasion and extreme drought reduce the functioning and resilience of evergreen Mediterranean oak woodlands"</i>	<b>Víctor Flors</b> (Universitat Jaume I, Castellón) <i>"Root to shoot communications in arbuscular mycorrhizal tomato coordinating responses against Botrytis cinerea"</i>
	<b>ORAL COMMUNICATIONS</b>	<b>ORAL COMMUNICATIONS</b>
18:40	<b>Ricardo Aroca</b> <i>"Phenotypic and molecular traits determine the tolerance of olive trees to drought stress"</i>	<b>Francisca Blanco-Herrera</b> <i>"Homogalacturonan status modulation through PME/PME13 is a key component of Arabidopsis defense during the early stage of infestation by Myzus persicae"</i>
19:00	<b>Marcos Viejo Somoano</b> <i>"Embryonic epigenetic memory drives the rapid adaptation of Norway spruce to progressive environmental warming"</i>	<b>Virginia Ruiz Ferrer</b> <i>"Epigenetic processes and central genes for plant development are altered during the novo-organogenesis of nematode-induced feeding sites"</i>
19:20	<b>Marouane Baslam</b> <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>	<b>Ana Arnaiz Alonso</b> <i>"Plant defenses against pests driven by a bidirectional promoter"</i>
19:40	<b>Emilio Luis Marcos Barbero</b> <i>"Wheat diversity and climate change: Impact of elevated CO<sub>2</sub> concentration and temperature on central metabolism and grain nutritional quality"</i>	<b>Leyre Pescador Azofra</b> <i>"Nitric oxide: the good or the bad guy?"</i>
20:30	<b>WELCOME COCKTAIL (Cathedral of Pamplona) and music by SUAKAI (<a href="https://www.suakai.com/">https://www.suakai.com/</a>)</b>	

## Thursday 27<sup>th</sup> June

### PLENARY CONFERENCE (Cámara Hall)

8:00 **Pierdomenico Perata** (Scuola Superiore Sant'Anna, Pisa, Italy)  
*"Plants under hypoxia: occurrence, signaling, adaptation"*

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

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

## Friday 28<sup>th</sup> June

### PLENARY CONFERENCE (Cámara Hall)

08:00 **Harro Bouwmeester** (University of Amsterdam, The Netherlands)  
*"Communication of plants with their environment: the role of strigolactones"*

09:00	<b>Special session. This is my idea, this is my project, this is my company</b> (Cámara Hall) Sponsored by: 	<b>Session 10. Growth and Development</b> (Luneta Hall)
	<b>Chairpersons:</b> Nora Alonso and Arjen van Tunen	<b>Chairperson:</b> Óscar Lorenzo and María Manuela Costa
	<b>KEYNOTE LECTURE</b>	<b>KEYNOTE LECTURE</b>
	<b>Arjen van Tunen</b> (KeyGene, Wageningen, The Netherlands) <i>"Breakthrough Innovations for better and healthier crops "</i>	<b>Karel Dolezal</b> (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>
	<b>ORAL COMMUNICATIONS</b>	<b>ORAL COMMUNICATIONS</b>
09:40	<b>Miquel Ribas</b> <i>"In your field or in your lab? PhysPlantLab performs ecophysiological analyses for you"</i>	<b>Lorena Norambuena</b> <i>"Arabidopsis root organogenesis upon the control of endomembrane trafficking in Arabidopsis thaliana"</i>
10:00	<b>Antonio Molina</b> <i>"PlantResponse Biotech: from the lab to the farmers and beyond"</i>	<b>Sara Coelho</b> <i>"Unravelling the ancestral function of MYB-like genes in Marchantia polymorpha"</i>
10:20	<b>Francisco Codoñer</b> <i>"R&amp;D services to understand biological systems "</i>	<b>Ignacio Ezquer</b> <i>"New insights into SEEDSTICK: a master regulator of development, metabolism and cell wall structure in the Arabidopsis seed coat"</i>
10:40	<b>Nora Alonso and Xana Belastegui</b> <i>"Do you like the challenges? Fund a biotech"</i>	<b>Pedro Pastor Andreu</b> <i>"Filling the gaps to understand plant responses to vegetation proximity: genetic, spatial and temporal regulation"</i>
11:00	<b>Coffee break and poster view</b> Sponsored by: 	

12:00	<b>Session 11. Plant Biotechnology and Synthetic Biology</b> (Cámara Hall)	<b>Session 3. Signaling</b> (Luneta Hall)
	<b>Chairpersons:</b> Iraida Amaya and Susana Araújo	<b>Chairpersons:</b> Pedro Rodríguez Egea and Andrea Chini
	<b>KEYNOTE LECTURE</b>	<b>KEYNOTE LECTURE</b>
	<b>Antonio Granell</b> (Instituto de Biología Molecular y Celular de Plantas, Valencia) <i>"The nutrititional-flavor composition network in tomato and its modification"</i>	<b>Irene García</b> Instituto de Bioquímica Vegetal y Fotosíntesis (Sevilla) <i>"Cyanide-mediated signaling in Arabidopsis"</i>
	<b>ORAL COMMUNICATIONS</b>	<b>ORAL COMMUNICATIONS</b>
12:40	<b>Iraida Amaya Saavedra</b> <i>"Independent mutations in a single locus, the transcriptional factor MYB10, control natural variation in fruit color among Fragaria species"</i>	<b>Pedro Luís Rodríguez Egea</b> <i>"E3 ubiquitin ligases that mediate turnover of ABA signaling core components regulate stress response"</i>
13:00	<b>María Luisa Hernández Jiménez</b> <i>"Functional genomics of the formation of volatile compounds responsible for the virgin olive oil aroma"</i>	<b>Andrea Chini</b> <i>"When Chemistry meets Biology: identification of a novel OPR3-independent pathway for JA biosynthesis"</i>
13:20	<b>Lucía Jordá Miró</b> <i>"Expression of the constitutive active MAP3K YODA from Arabidopsis thaliana in Solanum lycopersicum confers enhanced resistance to bacteria"</i>	<b>Inmaculada Sánchez Vicente</b> <i>"Reversible S-nitrosylation controls fatty acid storage during embryo development"</i>
13:40	<b>María Ancín Rípodas</b> <i>"Thioredoxin m overexpression in chloroplasts alters carbon and nitrogen partitioning in tobacco plants"</i>	<b>Lara García Campa</b> <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	<b>LUNCH</b>	
15:30	<b>CLOSING SESSION (Cámara Hall): Sabater Conference by Sabater awardee</b> <b>Sara Izquierdo Zandalinas</b> <i>"Local and systemic signaling during acclimation to different environmental conditions."</i>	
16:15	<b>FV2019 congress awards, announcements and closure</b> (Cámara Hall)	