

FINAL PROGRAM FV2013

24 July 2013 (Wednesday afternoon)

Plenary Lecture (room 3.2.15)

Chair: M^a Dolores Rodriguez

15:00-16:00 | **M. Manuela Chaves** | **Crop production and climate change – the challenges ahead**

Keynote Lectures S1, S2 (room 3.2.15)

Chair: Melvin Oliver

16:00-16:30 | **Salomé Prat (S1)** | **Seasonal control of storage organ formation: new cultivars tolerant to heat-stress**

16:30-17:00 | **José Feijó (S2)** | **Merging biophysics with genetics on the pollen tube cell: a window to systems' coordination?**

Session 1a: Applied Physiology (room 3.2.15)

Sponsored by ARALAB

Chairs: Teresa Lino Neto Paula Scotti

18:00-18:15	Alfonso Albacete	Ectopic overexpression of the cell wall invertase gene <i>CIN1</i> recovers fruit SINK activity and crop yield under salinity and increases water use efficiency in tomato
18:15-18:30	Berta Gonçalves	Role of salicylic acid in grapevine resistance to water stress
18:30-18:45	Helena Sapeta	A physiological and transcriptomic approach to study the drought stress response in <i>Jatropha curcas</i>
18:45-19:00	Patricia Vidigal	The effect of <i>2CysPrx</i> and <i>PrxIIb</i> gene silencing in the antioxidant system under heat stress
19:00-19:15	Rúben Vicente	Carbon fixation, nitrogen assimilation and gene expression responses in durum wheat to elevated CO ₂ at different nitrogen supplies
19:15-19:30	Viviana Martins	Functional characterization of <i>Vitis vinifera</i> copper transporter 1 (VvCTr1)

Session 2a: Cell Biology, Development & Senescence (room 6.1.36)

Chairs: Concepción Ávila Hernâni Gerós

18:00-18:15	Ana Margarida Rosa	Role of Manganese Superoxide Dismutase in Arabidopsis Stress and Development
18:15-18:30	Ana Milhinhos	POPACALIS5 controls thermospermine levels by an auxin dependent feedback loop mechanism in Populus xylem
18:30-18:45	M. Doroteia Campos	Involvement of carrot PTOX o root secondary growth and on cell reprogramming upon stress
18:45-19:00	Nora Marín de la Rosa	Molecular mechanism of the antagonistic action between gibberellins and cytokinins during development
19:00-19:15	Liliana Ferreira	Deciphering DNA methylation to understand rice tolerance to salt
19:15-19:30	Tamara Lechón	Integrating auxin and nitric oxide signaling into plant growth of <i>Arabidopsis Thaliana</i>

25 July 2013 (Thursday morning)

Plenary Lecture (3.2.15)

Chair: M. Manuela Chaves

9:00-10:00	<u>Pilar Carbonero</u>	Physiological relevance and transcriptional regulation of hydrolase encoding genes upon seed germination: from model systems to crops
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Keynote Lecture S3 (room 3.2.15)

Chair: M. Margarida Oliveira

10:00-10:30	Paul Christou (S3)	Plant biotechnology based products for animal feed and human health
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Session 1b: Applied Physiology (room 3.2.15)

Sponsored by ARALAB

Chairs: M^a Dolores Rodriguez João Santos Pereira

11:30-11:45	Amaranta García-Garijo	Accumulation and detoxification of herbicide IMAZAMOX in plants of <i>P. vulgaris</i> and <i>V. sativa</i>
11:45-12:00	Carlos Correia	Green manure legumes affect seasonal soil and leaf CO ₂ exchange rates in an olive rainfed orchard
12:00-12:15	Marta Pintó-Marijuan	Clues to the impact of atmospheric NH ₃ from multifunctional agrosystems on <i>Quercus suber</i> photosynthesis
12:15-12:30	A. Guerreiro	Evolution of strawberry fruit quality treated with pectin based edible coatings enriched with citral through storage
12:30-12:45	Fermín Morales	Carbon balance, partitioning and photosynthetic acclimation in fruiting grapevine (<i>Vitis vinifera</i> L. cv tempranillo) grown under simulated climate change (elevated CO ₂ , elevated temperature and moderate drought) scenarios in temperature gradient greenhouses
12:45-13:00	Francisco Pérez-Alfocea	ROOTPOWER: Empowering root-targeted strategies to minimize abiotic stress impacts on horticultural crops
13:00-13:15	Joana Lado	Influence of light on carotenoid and ascorbic acid accumulation in 'Star Ruby' grapefruit

Session 2b: Cell Biology, Development & Senescence (room 6.1.36)

Chairs: José Feijó Conceição Santos

11:30-11:45	Ana Campilho	HP6 function during development of root lateral organs
11:45-12:00	Elena Nájar	SNRK2 family in maize: regulation and characterization of a zinc-finger transcription factor
12:00-12:15	Marcos Viejo	DNA methylation profile, immunolocalization of epigenetic marks and programmed cell death effector caspase 3 throughout chestnut sexual embryogenesis
12:15-12:30	M. Manuela Costa	A subcellular tug of war involving three MYB proteins underlies a molecular antagonism in <i>Antirrhinum</i> flower asymmetry
12:30-12:45	María-Teresa Solís	Dynamics of DNA methylation and MET1a-LIKE expression during pollen reprogramming to embryogenesis
12:45-13:00	Raquel Iglesias-Fernández	Transcription factors of the bZIP family affecting <i>Arabidopsis thaliana</i> seed germination <i>sensu stricto</i>

25 July 2013 (Thursday afternoon)**Plenary Lecture (room 3.2.15)****Chair:** José Feijó

15:00-16:00	Miltos Tsiantis	Towards understanding development and diversity of leaf shape
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Keynote Lecture S4 (room 3.2.15)**Chair:** Paul Christou

16:00-16:30	Antonio Granell (S4)	A combination of natural variability and genomics reveals genes for fruit quality traits
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Session 3: Biotechnology and Innovation (room 3.2.15)**Chairs:** Paul Christou Mariana Sottomayor

18:00-18:15	E. Vamvaka	Expression, purification and glycosylation profile of the 2G12 anti-HIV antibody produced in rice seeds
18:15-18:30	Inês Carqueijeiro	Vacuolar transport of the medicinal alkaloids from <i>Catharanthus roseus</i> is mediated by a proton driven antiport
18:30-18:45	Lorena Almagro	Dissection of the transcriptional regulation of grapevine cell cultures in response to elicitation
18:45-19:00	Rita Batista	In vitro culture is the major contributing factor for transgenic vs. non-transgenic proteomic plant differences
19:00-19:15	Roque Bru	A metabolic engineering strategy to obtain methylated stilbenoid derivatives in elicited grapevine cell cultures
19:15-19:30	Sarai Belchí-Navarro	Hydrogen peroxide and nitric oxide participates in defense responses to cyclodextrins and methyl jasmonate in grapevine cell cultures

Session 4: Systems Biology & Omic Studies (room 6.1.36)**Chairs:** David Salt Octávio Paulo

18:00-18:15	Alberto de Marcos	Life without stomata: transcriptional clues from <i>Arabidopsis thaliana</i>
18:15-18:30	Jesús Pascual Vázquez	Systemic UV stress adaptation of <i>Pinus radiata</i> D. DON
18:30-18:45	Leonor Guerra-Guimarães	Apoplast proteome of coffee leaves reveals the complex function of this cellular compartment
18:45-19:00	Pedro Barros	SuberStress – An integrated approach to identify stress-related regulatory genes in cork oak
19:00-19:15	Teresa Martínez-Cortés	A proteomic approach to <i>Physcomitrella patens</i> root exudates
19:15-19:30	Victor Carocha	The microEGo Project: Unraveling post-transcriptional regulation mechanisms on Eucalyptus wood formation

Afternoon coffee-break Sponsored by PP SYSTEMS

26 July 2013 (Friday morning)

Plenary Lecture (room 3.2.15)

Chair: Pilar Carbonero

9:00-10:00 | Rodrigo Gutiérrez Nitrogen Regulatory Networks Controlling Plant Root Growth

Keynote Lectures S5,S6 (room 3.2.15)

Chair: Pilar Carbonero

10:00-10:30 | Isabel Díaz (S5) Barley cysteine-proteases in different metabolic processes

Chair: Cristina Cruz

10:30-11:00 | Pedro Antunes (S6) Plant-soil microbe interactions in natural and managed plant communities: what we know, what we need to know and how to get there

Session 5: Metabolism & Bioenergy (room 6.1.36)

Chairs: Francisco Cánovas Ramos Carla Pinheiro

11:30-11:45	Fernando Gandía-Herrero	4,5-DOPA-extradiol-dioxygenase in the biosynthesis of the plant pigments betalains
11:45-12:00	Francisco Cánovas	Molecular characterization, functional studies and cellular localization of glutamine synthetase isoforms in poplar
12:00-12:15	Isabel Ruiz-Ballesta	The monoubiquitinated and heterotetrameric CP21 PLANT-TYPE PEP CARBOXYLASE (PEPC) represents the major PEPC present during sorghum seed germination
12:15-12:30	Javier Pozueta-Romero	The Calvin-Benson cycle is not directly linked to transitory starch biosynthesis by means of phosphoglucose isomerase in plants exposed to microbial volatiles
12:30-12:45	Joaquín Herrero	Bioinformatic and physiological characterization of an Arabidopsis ATPRX72 knock-out mutant for a peroxidase involved in lignification
12:45-13:00	María Flores-Tornero	The phosphorylated pathway of serine biosynthesis is essential both for the male gametophyte and embryo development and for root growth in Arabidopsis

Session 6: Plant-Microbial Interactions (room 3.2.15)

Chairs: Cristina Cruz Pedro Aparício Tejo

11:30-11:45	Luis M. Carvalho	Microbial interactions in the rhizosphere mediating plant nitrogen nutrition: functional diversity of arbuscular mycorrhizal fungi matters
11:45-12:00	Cristina Silvar	Broad resistance to powdery mildew in Spanish barley landraces is likely governed by "intermediate-acting" genes
12:00-12:15	Helena Carvalho	Glutamine synthetase is involved in the NO signaling response in root nodules of <i>Medicago truncatula</i>
12:15-12:30	M. Estrella Santamaría	Genomics in agricultural pest management: spider mite-plant interface
12:30-12:45	Matilde Barón	Fluorescence and thermal imaging for plant pathogen diagnosis and characterization of plant mutants
12:45-13:00	Pedro Talhinhos	Overview of the functional virulent genome of the coffee leaf rust pathogen, <i>Hemileia vastatrix</i>

26 July 2013 (afternoon)

Plenary Lecture (room 3.2.15)

Chair: Salomé Prat

15:00-16:00	David Salt	The Genetic Architecture of Natural Ionomnic Variation in <i>Arabidopsis thaliana</i>
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Keynote Lecture S7 and SEFV Award (room 3.2.15)

Chair: Salomé Prat

16:00-16:30	Paula Duque (S7)	Major Facilitator Superfamily transporters and their roles in plant development and abiotic stress responses
16:30-17:00	Javier Gallego (SEFV Awarded)	Molecular mechanism for the interaction between gibberellin and brassinosteroid signaling pathways in <i>Arabidopsis</i>

Session 7a: Plant-Abiotic Interactions (room 3.2.15)

Chairs: Nelson Saibo Isabel Diaz

18:00-18:15	Anabela Bernardes da Silva	Physiological responses of two transgenic <i>Medicago truncatula</i> lines expressing the AtTPS1 gene towards water deficit
18:15-18:30	Cirenia Arias-Baldrich	Effect of ammonium stress on sorghum PEPC: monoubiquitination as a novel mechanism of regulation
18:30-18:45	Luis E. Hernández	Early induction of small heatshock proteins under mercury stress is mediated by ethylene
18:45-19:00	Óscar Lorenzo	Unravelling nitric oxide (NO) function during early plant development and stress responses
19:00-19:15	Pilar Testillano	Involvement of NO, ROS and CELL DEATH ASSOCIATED WITH CASPASE-LIKE activity in pollen embryogenesis induction by stress
19:15-19:30	Ascensión Martínez-Pérez	High relative humidity promotes vegetative growth and photosynthesis of salinised tomato, but not in ABA-overproducing genotypes

RoundTable: Entrepreneurship / Financing opportunities / Brands and patents (room 6.1.36)

Chair: Miguel Costa

18:00-18:45	João Paulo Crespo Ana Barradas (15 min)	(Fertiprado)
	João Santana Jorge (15 min)	(CEO Raúl César Ferreira - Marcas e Patentes) IP Consulting and Services
	Maria João Fernandes (15 min)	(Fundação para a Ciência e a Tecnologia) Financing Opportunities @ Horizon2020
18:45-19:30	Open Discussion (45 min)	

Afternoon coffee-break Sponsored by ROCHE

27 July 2013 (Saturday morning)

Plenary Lecture (room 3.2.15)

Sponsored by ARALAB

Chair: M. Margarida Oliveira

9:30-10:30 | Melvin Oliver Plant Science and Agriculture: A Global Enterprise

Keynote Lecture S8, VIP-schools (room 3.2.15)

Chair: José Matos

10:30-11:00 | **Octávio Paulo (S8) Cork Oak: a new evolutionary perspective on the National tree**

11:00-11:30 | **VIP – School Contest (S9) Winner teams**

Session 7b: Plant-Abiotic Interactions (room 3.2.15)

Chairs: Paula Duque M^a Angéles Pedreño García

12:30-12:45	Américo Rodrigues	A molecular explanation for the crosstalk between sugar and abscisic acid
12:45-13:00	Ana Assunção	Unravelling the molecular network regulating zinc content in plants: from Arabidopsis to Rice
13:00-13:15	P. L. Rodriguez	PYL8 plays an important role for regulation of abscisic acid signaling in root
13:15-13:30	M. Cecília Almadanim	Uncovering OsCPK17 role in rice abiotic stress response
13:30-13:45	Tânia Almeida	QsMYB1 expression is modulated in response to abiotic stress and plant recovery
13:45-14:00	Tânia Serra	Rice OsEREBP1 and OsEREBP2 transcription factors regulate the expression of the salt-stress responsive gene OsRMC

Session 8: Evolution & Biodiversity (room 6.1.36)

Chair: Ana Assunção

12:30-12:45	Cristina Barrero-Sicilia	The family of DOF transcription factors in <i>Brachypodium distachyon</i> : BdDOF24 in germinating seeds
12:45-13:00	Fernanda Simões	Mediterranean patterns of genetic diversity and differentiation in <i>Quercus suber</i> populations
13:00-13:15	Susana González-Pérez	Diversity analysis of <i>Capsicum annuum</i> genetic resources from Spain

Session 9: Education & Teaching (room 6.1.36)

Chair: José António Matos

13:15-13:30	Ana Paula Santos	Seeds of Plant Sciences into the classroom
13:30-13:45	José Luis Acebes	Fascinating experiments with plants: a teaching resource leading to the acquisition of competences in Plant Physiology
13:45-14:00	Maria Amelia Martins-Loução	The Teaching of Biology in the XXI century: The convergence revolution

VIP contest Sponsored by RCF