



European Plant Science Organisation
7th EPSO Conference
'Plants for a Greening Economy'

Porto Heli, Greece
01 – 04 September 2013
<http://www.epsoweb.org/7th-epsso-conference-1-4-september-2013-greece>



Programme by 28 August 2013
 Confirmed chairs and speakers are in bold

Saturday 31 August 2013		
P.M.	Arrival I	
20:00	<i>EPSO General Meeting Dinner</i>	<i>EPSO representatives (no public dinner)</i>
Sunday 1 September 2013		
9:00 – 17:00	<i>EPSO General Meeting</i>	<i>EPSO representatives (no public meeting)</i>
From 16:00	Registration Exhibition	
P.M.	Arrival II	
19:00 - 20:30	Opening and keynote Chairs: Karin Metzloff , Brussels, BE George Skaracis , Athens, GR	Speakers: Karin Metzloff and George Skaracis (10 min) <i>Executive Director of the European Plant Science Organisation</i> <i>Local Conference Organiser and Head of Laboratory of Plant Breeding and Biometry, Agricultural University of Athens, GR</i> Athanasios Tsaftaris , GR (10 min) <i>Minister for Rural Development and Food, GR</i> Opening on behalf of Greek government Harvesting the outputs of the –omics field for a sustainable agriculture and food security Theodoros Skylakakis , GR (10 min) <i>Member of the European Parliament, GR</i> Title t.b.a Gregory Stephanopoulos , US, (60 min), <i>MIT</i> S01 Keynote: Plants, the key to a sustainable bioeconomy
20:45 – 22:30	Welcome Reception	
Monday 2 September 2013		
9:00 – 11:00	Regulatory networks in plants Chair: Heribert Hirt , Evry, FR	Speakers: Dierk Scheel , IPB Halle, DE (25 + 5 min) P020 for S02 Calcium and MAP kinase signalling in PAMP-triggered immunity <i>Co-sponsored by SESVanderHave</i> Phil Benfey , Duke University, Durham, US (25 + 5 min) S03 Regulation of the plant root development Javier Paz-Ares , CNB, ES (25 + 5 min) S04 Functional genomics of transcription factors <i>EMBO lecture</i> Célia Miguel , IBET, Oeiras, PT (15 + 5 min) S05 Disclosing a mechanism of thermospermine homeostasis control essential for proper xylem development
11:00	Coffee break	

11:30 – 13:30	Plant response and adaptation to biotic stresses Chair: Jonathan Jones , Sainsbury Lab, Norwich, UK,	Speakers: John Mundy , Univ Copenhagen, DK (25 + 5 min) S06 Plant cell death mechanisms <i>Sponsored by KWS Saat AG</i> Matthias Erb , Max Planck Inst. Jena, DE (25 + 5 min) S07 Signaling in plant-insect interactions <i>Sponsored by Südzucker AG</i> Xinnian Dong , Duke Univ., US (25 + 5 min) S08 Salicylate acid signal receptors and transduction in plant immunity Panagiotis Sarris , Sainsbury Lab, Norwich, UK, (15 + 5 min) S09 Plant R gene allelic variation in defence activation: The case of <i>Arabidopsis</i> RRS1/RPS4
13:30 – 15:30	Lunch & networking Exhibition	14:00 – 14:30 Opening and short presentations of two selected posters: Bretislav Brzobohaty , CZ (5 + 5 min) Pxx Shimon Gepstein , IL (5 + 5 min) Pxx
14:00 – 15:30	Poster Session I with drinks Chair: Jacek Hennig , Institute of Biochemistry and Biophysics, Polish Academy of Science, Warsaw, PL	14:30 – 15:00 Even poster numbers will be attended 15:00 – 15:30 Uneven poster numbers will be attended
15:30 – 17:00	Plant response and adaptation to abiotic stress (multilevel approach) Chair: Christophe Plomion , Biodiversity, Genes and Communities, INRA, Bordeaux, FR	Speakers: Jian-Kang Zhu , Purdue, US (25 + 5 min) S10 Epigenetic changes in response to climate change (at individual levels) <i>Sponsored by Syngenta</i> Marc de Block , Bayer, Gent, BE (25 + 5 min) S11 Shaping the epigenetic components of plant performance and abiotic stress tolerance Kazuki Saito , RIKEN Center, JAP (25 + 5 min) S12 Metabolomics finds a new class of plant lipid essential for protection against phosphorus depletion
17:00	Coffee break	
17:30 – 20:00	Science policy: Plant science and agriculture Chairs: Eckhard George , Grossbeeren, DE & Karin Metzloff , Brussels, BE	Speakers: Heribert Hirt , INRA, Evry, FR (25 + 5 min) S13 <i>President of the European Plant Science Organisation</i> Agriculture – opportunities and challenges and how plant science can help addressing these Nikiforos Sivenas , Brussels, BE (25 + 5 min) S14 <i>Principal Advisor to the Director General, DG Agriculture and Rural Development, European Commission</i> Addressing societal challenges - moving towards innovation driven agriculture - Potential of future research and innovation in Europe and beyond Panagiota Mylona , Brussels, BE (25 + 5 min) S15 <i>Directorate FAFB, DG Research and Innovation, European Commission</i> Bioeconomy – plant science and agriculture – new avenues for research and innovation Peter Hedden , Rothamsted Research, UK S16 <i>Vice-Chair of European Research Council (ERC) LS9 Panel</i> European Research Council's support to Life Sciences - an opportunity for the Plant Science research community in Europe Wilhelm Gruissem , Zurich, CH (25 + 5 min) S17 <i>President of the Global Plant Council</i> Global needs and contributions from plant science to these – first actions from the Global Plant Council
20:15	Dinner	

Tuesday		3 September 2013	
8:30 – 10:30	Plant response and adaptation to low resource availability Chair: Ton Bisseling , Wageningen, NL	Speakers: Kazuko Yamaguchi-Shinozaki , Univ. Tokyo, JAP (25 + 5 min) Plant responses and adaptation to water stress <i>Sponsored by KWS Saat AG</i> Eckhard George , Leibniz Inst. Grossbeeren, DE (25 + 5 min) Urban agriculture: a new trend that requires novel plant types adapted to urban environments? Andreas J. Karamanos , Agricultural Univ. Athens, GR (25 + 5 min) Strategies developed by crop germplasm facing water shortage in relation to production potential under drought Filip Rolland , KU Leuven, BE (15 + 5 min) The hybrid Four-CBS-Domain KIN β γ -subunit functions as the canonical γ subunit of the plant energy sensor SnRK1	S18 S19 S20 S21
10:30	Coffee break		
11:00 – 13:00	Climate change – the mitigating role of plants Chair: Uli Schurr , Julich, DE	Speakers: Reinhart Ceulemans , Univ. Antwerp, BE (25 + 5 min) Mitigating greenhouse gas emissions via bio-energy production using short-rotation coppice of fast-growing trees? Dan Yakir , Weizmann, IL (25 + 5 min) Does carbon sequestration of semi-arid regions contribute to climate change mitigation? Franco Miglietta , CNR di Firenze, IT (25 + 5 min) Plants, carbon and climate: Effects, limitations and feedback Bruce Osborne , UC Dublin, IE (15 + 5 min) Contrasting effects of afforestation on carbon sequestration and greenhouse gas emissions	S22 S23 S24 S25
13:00 – 17:30	Excursion Exhibition		
17:30	Coffee break		
18:00 – 20:00	Global food security I: Sufficiency and affordability Chair: Chiara Tonelli , Milano, IT <i>Session sponsored by Bayer CropScience</i>	Speakers: Jean-Christophe Glaszmann , CIRAD, Montpellier, FR (25 + 5 min) Towards European – Developing Countries longer term partnerships and linking stakeholders in plant sciences for sustainable intensification of agricultural production – advances and outlook following the FAO-EPSO workshop Mauricio A Lopes , Embrapa, BRA (25 + 5 min) Biological resources in the context of green economy Rodomi Ortiz , SLU Alnarp, SE (25 + 5 min) Major developments in international breeding practices Florian Schröper , IME Aachen, DE (15 + 5 min) Fast and highly sensitive detection of plant pathogens using a novel magnetic immunoassay	S26 S27 S28 S29
	Dinner		

Wednesday 4 September 2013	
9:00 – 11:00	<p>Global food security II: Nutritional quality and safety Chair: Eckhard George, Grossbeeren, DE</p> <p>Speakers:</p> <p>Cathie Martin, JIC, Norwich, UK (25+5 min) S30 Plant pigments and human health – advances and outlook following the EPSO workshop <i>Sponsored by The Plant Cell</i></p> <p>Jan Delcour, K.U. Leuven, BE (25 + 5 min) S31 Advances in cereal dietary fibre (incl. research on plants, production, chemistry and function) <i>Sponsored by PhytoTechnology</i></p> <p>Maurice Moloney, Rothamsted, UK (25 + 5 min) S32 Omega3 fatty acids – soybean, rapeseed etc. <i>Co-sponsored by Dow Agrosciences</i></p> <p>Theresa Fitzpatrick, Univ of Geneva, CH (15 + 5 min) S33 Unraveling the homeostasis of two components of the vitamin B complex and their possible exploitation for beneficial purposes in plants</p>
11:00	Coffee break
11:30 – 13:30	<p>Plant breeding and sustainability: Novel methodologies and targets, genomes in action Chair: George Skaracis, Athens, GR</p> <p>Speakers:</p> <p>Alain Charcosset, INRA, Paris, FR (25 + 5 min) S34 Advances in molecular breeding <i>Sponsored by SESVanderHave</i></p> <p>Marcel Prins, Keygene, NL (25 + 5 min) S35 NGS technologies for molecular breeding</p> <p>Jordi Comadran Trabal, Hutton Inst, UK (25 + 5 min) S36 Whole genome association mapping, a platform for gene isolation</p> <p>Jochen Kumlehn, IPK Gatersleben, DE (15 + 5 min) S37 TALE nuclease-mediated gene targeting in barley</p>
13:30 – 15:30	Lunch and networking
14:00 – 15:30	<p>Poster Session II Chair: Jose Pio Beltran, Valencia, ES</p> <p>14:00 – 14:30 Opening and short presentations of two selected posters: Søren Borg, Univ Aarhus, DK (5 + 5 min) Pxx Pauline Lemonnier, CNRS, FR (5+5min) Pxx</p> <p>14:30 – 15:00 Uneven poster numbers will be attended 15:00 – 15:30 Even poster numbers will be attended</p>
15:30 – 17:30	<p>Plant driven bioeconomy: Bioenergy, biofuels, molecular farming, biomaterials Chair: Eva-Mari Aro, Turku, FI</p> <p>Speakers:</p> <p>Angela Karp, Rothamsted Research, UK (25 + 5 min) S38 Tailoring plants for biorefineries <i>Sponsored by Agrisera</i></p> <p>Merja Penttilä, Technical Research Centre, FI (25 + 5 min) S39 Metabolic engineering of yeast and filamentous fungi for conversion of hemicellulose sugars to chemicals <i>Sponsored by FESPB</i></p> <p>Nico Dissmeyer, Leibniz Institute of Plant Biochemistry, Halle, DE (25 + 5 min) S40 Protein quality control – from protein recognition and degradation to conditional protein expression <i>Sponsored by Südzucker AG</i></p> <p>Henrik Aspeborg, Royal Institute of Technology, Stockholm, SE (15 + 5 min) S41 Plant GH5 enzymes – alternative tools for plant polysaccharide modifications</p>
17:30	Coffee Break

18:00 – 20:00	Plant evolution – Biodiversity and ecosystems Chair: Bruce Osborne , Dublin, IE	Speakers: Sandy Knapp , Natural History Museum, London, UK S42 Biodiversity conservation (25 + 5 min) <i>Sponsored by Distinguished Scientist Fellowship Program, King Saud University</i> Tom Whitham , Univ. Northern Arizona, US (25 + 5 min) S43 The community genetics of biodiversity Filippos Aravanopoulos , Univ. Thessaloniki, GR (15+ 5 min) S44 Genomic monitoring of perennial plant populations: early warning system and conservation value Adam Takos , Univ Copenhagen, DK (15 + 5 min) S45 Repeated evolution of cyanogenic glucoside biosynthetic gene clusters
20:45	Conference Dinner with music	Karin Metzloff , Brussels, BE & George Skaracis , Athens, GR: Prizes for the three best posters will be awarded Conference 2014 will be announced Close of the conference
Thursday	5 September 2013	
A.M.	Departure I	
09:00-13:00	<i>ERA-CAPS High Level group Meeting</i>	
09:00 – 18:00	<i>EPPN Workshop: Plant Phenotyping</i>	
t.b.a.	<i>Side-Meetings</i>	<i>e.g. from your EU projects, COST etc.</i>
	<i>Private excursions via tourist office</i>	
Friday	6 September 2013	
t.b.a.	<i>Side-Meetings</i>	<i>e.g. from your EU projects, COST etc.</i>
	<i>Private excursions via tourist office</i>	
Saturday	7 September 2013	
A.M.	Departure II	

Time Schedule

Morning		Afternoon				Evening		
Saturday, 31 August 2013								
Xx p.m. Arrival I								
Sunday, 1 September 2013								
9 – 17:00		16 – 19:00		19-20:30	Break	20:45-22:30		
<i>EPSO General Meeting</i>		Registration; Coffee at 18:00 Arrival II		Opening Keynote		Welcome reception		
Monday, 2 September 2013								
9 - 11:00	Break	11:30 – 13:30	13:30-15:30	15:30 – 17:00	Break	17:30 – 20:00	Break	20:15
Regulatory networks in plants	Cof-fee	Plant response / adaptation to biotic stresses	Lunch; Poster session; Network	Plant response / adaptation to abiotic stresses	Cof-fee	Plant science and agriculture		Dinner
Tuesday, 3 September 2013								
8:30 - 10:30	Break	11 -13:00	13 – 17:30		Break	18 – 20:00	Break	20:15
Plant response / adaptation to low resource availability	Cof-fee	Climate change – the mitigating role of plants	Excursion <i>[ERA-CAPS Management Board meeting]</i>		Cof-fee	Global food security I: sufficiency & affordability		Dinner
Wednesday, 4 September 2013								
9 - 11:00	Break	11:30 – 13:30	13:30-15:30	15:30 – 17:30	Break	18:00- 20:00	Break	20:45 – 23:00
Global food security II: nutritional quality & safety	Cof-fee	Plant breeding & sustainability: novel methods, targets	Lunch; Poster session; Network	Plant driven bioeconomy: energy, fuels, molecular farming, materials	Cof-fee	Plant evolution – biodiversity and ecosystems	Shuttle	Conference dinner with music Closing
Thursday, 5 September 2013			Friday, 6 September 2013			Saturday, 7 September 2013		
Xx a.m. Departure I						Xx am Departure II		
<i>ERA-CAPS High Level Group Meeting</i>								
<i>EPPN Workshop: Plant Phenotyping</i>								
<i>Side Meetings (e.g. from your EU projects, COST etc.)</i>			<i>Side Meetings (e.g. from your EU projects, COST etc.)</i>					
<i>Private excursions via tourist office</i>			<i>Private excursions via tourist office</i>					

We would like to thank our committees and secretariat members for organising this conference:

Members of the **organising committee**: Jose-Pio Beltran, Ton Bisseling, Eckhard George, Jacek Hennig, Heribert Hirt, Jonathan Jones, Bruce Osborne, Christophe Plomion, Karin Metzloff (EPSO coordinator), Eva-Mari Aro and Chiara Tonelli.

Members of the **local committee**: George N. Skaracis (Local coordinator), Nickolas Panopoulos, Epaminondas Paplomatias, Polydefkis Chatzopoulos, Filippos Aravanopoulos, Nicolas Ioannou (CY), Zach Adam (IL), Hillel Fromm (IL)

Conference **secretariat**: Katerina Karkala (EPSO conference officer) and Ourania Pavli (local assistant)