

	<p>European Plant Science Organisation</p> <p>5th EPSO Conference</p> <p>‘Plants for Life’</p> <p>Olos Polar Center (Lapland), Finland 29 August – 02 September 2010 http://www.epsoweb.org/event/conference/finland-2010</p>	
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<p>Programme by 30th June 2010</p> <p>All speakers are confirmed</p>
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Sunday		29 August 2010	
From 16:00	Registration Exhibition I	Sunday 15:00 – Monday 14:00 <i>Oxford University Press, Agowa GmbH</i>	
19:00 – 20:30	Opening and keynote Chairs: Karin Metzloff , Brussels, BE Kirsi-Marja Oksman-Caldentey , Espoo, FI	Speakers: Karin Metzloff and Kirsi-Marja Oksman-Caldentey (10 min) <i>Executive Director of the European Plant Science Organisation</i> <i>Local Conference Organiser and Head of Medical Biotechnology Department, VTT, Finland</i> Welcome from EPSO Leena Mannonen , FI (10 min) <i>Commercial Counsellor of the Ministry of Agriculture and Forestry</i> Opening on behalf of the Finnish plant science community and the Ministry of Agriculture and Forestry Eero Vuorio , FI (10 min) <i>Director Biocenter Finland</i> Biocenter Finland - a unique solution towards development of nation-wide technology platforms and research infrastructures Jonathan Jones , Norwich, UK (60 min) S01 <i>Professor at The Sainsbury Laboratory</i> Keynote: Understanding defence mechanisms and enhancing crop disease resistance	
20:45 – 22:30	Welcome buffet dinner		
Monday		30 August 2010	
9:00 – 11:00	Achieving sustainability I: Crop genomes for sustainable agriculture Chair: Mike Bevan, Norwich, UK <i>Session co-sponsored by Syngenta</i>	Speakers: Mike Bevan , John Innes Center Norwich, UK (30 + 5 min) S07 <i>Genomics for food security: sequence and analysis of grass genomes</i> Pere Puigdomenech , Center for Research in Agricultural Genomics, CSIC, Barcelona, ES (25 + 5 min) S13 <i>Comparative genomics in Cucurbitaceae</i> Jean-Christophe Glaszmann , CIRAD Montpellier, FR (25 + 5 min) S09 <i>Co-sponsored by TSV, Federation of Finnish Learned Societies</i> Genomics-based exploitation of germplasm diversity in major tropical crops Alan Schulman , MTT, University of Helsinki, FI (15 + 5 min) S10 <i>Exploitation of Brachyopodium and rice genome synteny to clone a yellow rust resistance gene from wheat</i>	
11:00	Coffee break		
11:30 – 13:30	Achieving sustainability II: Breeding tools and strategies Chair: Arjen van Tunen, Wageningen, NL	Speakers: Arjen van Tunen , Keygene, Wageningen, NL (30 + 5 min) S11 <i>Sponsored by Dow Agrosiences</i> Crop specific genomic tools for variety improvement Maarten Koornneef , Max Planck Institute Plant Breeding S55	

		<p>Research, Cologne, DE (25 + 5 min) <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Genetics and molecular biology of seed dormancy</p> <p>Andreas Graner, IPK Gatersleben, DE (25 + 5 min) S56 <i>Sponsored by MTT Agrifood Research Finland</i> Towards genomics-driven breeding of barley (<i>Hordeum vulgare</i>): challenges and opportunities</p> <p>Richard Thompson, INRA UMR, Dijon, S14 FR (15 + 5 min) Sustainable agriculture in Europe with legume crops</p>
13:30 – 15:00	Lunch and Poster viewing, networking Exhibition II	<p>Monday 15:00 – Tuesday 14:00 <i>The Genome Analysis Centre, European Science Foundation</i></p>
15:00 – 17:00	<p>Strengthening the functioning of ecosystems I: Improvements in plant health Chair: Thomas Boller, Basel, CH</p>	<p>Speakers:</p> <p>Thomas Boller, University of Basel, CH (30 + 5 min) S41 <i>EMBO lecture</i> The role of pattern recognition receptors in plant disease resistance</p> <p>Ulrich Schurr, Forschungszentrum Jülich, DE S42 (25 + 5 min) <i>Sponsored by Keygene</i> Plant phenotyping: Overcoming bottlenecks, novel perspectives and integration (Conclusions from the EPSO Workshop, Jülich, November 2009)</p> <p>Dierk Scheel, Leibniz Institute of Plant Biochemistry, Halle, DE (25 + 5 min) S44 Plant-microbe interaction in the rhizosphere – a metabolomic approach</p> <p>Bruno Touraine, Université Montpellier 2, FR (15 + 5 min) S57 Arabidopsis-rhizobacteria as a model system to study plant plasticity</p>
17:00	Coffee break	
17:30 – 19:30	<p>Science policy: Plant science in Europe and beyond Chair: Wilhelm Gruissem, Zurich, CH & Karin Metzloff, Brussels, BE</p>	<p>Speakers:</p> <p>Wilhelm Gruissem, Zurich, CH (25 + 5 min) S02 <i>President of the European Plant Science Organisation</i> Food security—risks and challenges for the European Bioeconomy</p> <p>Patricia Reilly, Brussels, BE (25 + 5 min) S58 <i>European Commission, Cabinet Geoghegan-Quinn</i> Potential of future research and innovation for the Bioeconomy in Europe and beyond</p> <p>Tim Willis, Swindon, UK (25 + 5 min) S04 <i>Head International relations unit BBSRC</i> The Joint Programming Initiative “Agriculture, Food Security and Climate Change”</p> <p>Shivaji Pandey, FAO, Rome, IT (25 + 5 min) S06 <i>Director Plant production and protection division</i> Global needs in plant production and protection and contributions from plant science to these</p>
19:30 – 20:30 20:00 – 22:00	<p>Dinner Poster Session I with drinks Chair: Dénes Dudits, BRC Szeged, HU</p> <p>Workshop Outreach and education Chair: Jan Kellmann, MPICE, Jena, DE</p>	<p>20:00 – 20:20 Opening and short presentations of two selected posters: Shaul Yalovsky Anahit Galstyan P P27</p> <p>20:20 – 21:10 Even poster numbers will be attended 21:10 – 22:00 Uneven poster numbers will be attended</p> <p>20:00 – 22:00 W1</p>

Tuesday		31 August 2010	
8:30 – 10:30	Strengthening the functioning of ecosystems II: Climate change impact on plant production Chair: Heribert Hirt, Evry, FR	Speakers: Heribert Hirt , INRA, Evry, FR (30 + 5 min) S59 Novel strategies to improve stress tolerance in plants Philippe Ciais , Laboratoire des Sciences du Climat Te de l' Environnement, Gif-sur-Yvette, FR (25 + 5 min) S05 Drivers and response of the global carbon cycle Chiara Tonelli , University of Milano, IT (25 + 5 min) S46 <i>Sponsored by Bayer CropScience-BioScience</i> Plant Productivity (Conclusions from the EPSO Workshop, Ghent, September 2009) Mark Fennell , University College Dublin, IE (15 + 5 min) S47 Unravelling the impacts of climate change on plant invasions at the ecosystem scale: experimental and modelling approaches	
10:30	Coffee break		
11:00 – 13:00	Strengthening the functioning of ecosystems III: Climate, ecosystems and genomics Chair: Ian Woodward, Sheffield, UK	Speakers: Ian Woodward , University of Sheffield, UK (30 + 5 min) S48 <i>Sponsored by Conviron</i> Climate, ecosystems and genomics Jenny McElwain , University College Dublin, IE (25 + 5 min) S49 <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Response of biodiversity and ecosystem function to past global warming events Gail Taylor , Plants & Environment Lab, University of Southampton, UK (25 + 5 min) S50 Gene, Ecosystem, Atmosphere: complex feedbacks that we cannot ignore Alexander Platt , Gregor Mendel Institute, Vienna, AT (15 + 5 min) S51 Population structure and gene flow in <i>Arabidopsis thaliana</i>	
13:00 – 16:30	Excursion Exhibition III	Tuesday 15:00 – Wednesday 19:00 <i>The Genome Analysis Centre, Lemnatec GmbH</i>	
17:00 – 18:30	Strengthening the functioning of ecosystems IV: Biodiversity Chair: Bernhard Schmid, Zürich, CH	Speakers: Bernhard Schmid , University of Zurich, CH (30 + 5 min) S52 <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Plant biodiversity effects Hugh W. Pritchard , Royal Botanic Gardens, Kew, UK (25 + 5 min) S54 Characterising seed biodiversity for functional performance under saline conditions Jelena Aleksić , Institute of Molecular Genetics and Genetic Engineering, Belgrade, SB (15 + 5 min) S60 High genetic diversity, cryptic genetic structure and complex population dynamics in a stenoendemic Serbian spruce present in the Balkans over a long time	
18:30 – 19:30	Dinner		
19:30 – 21:30	Achieving quality I: From plant architecture to traits Chair: Jan Traas, Lyon, FR	Speakers: Jan Traas , INRA, Lyon, FR (30+5 min) S15 From gene networks to morphogenesis Jane Langdale , University of Oxford, UK (25 + 5 min) S16 <i>Sponsored by Südzucker AG</i> The evolution and development of leaves Dani Zamir , Hebrew University of Jerusalem, Rehovot, IL (25 + 5 min) S17 <i>Sponsored by KWS</i>	

		A phenom networks view of the magic of heterosis Ruben Gutzat , ETH Zurich, CH (15 + 5 min) S18 Plant Retinoblastoma Related Protein controls seedling establishment after germination
Wednesday	1 September 2010	
8:30 – 10:30	Achieving quality III: Tree biology for multiple uses Chair: Stefan Jansson , Umea, SE	Speakers: Stefan Jansson , Umeå Plant Science Center, SE S29 (30 + 5 min) <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Natural variation in aspen Wout Boerjan , VIB, Ghent, BE (25 + 5 min) S30 <i>Sponsored by Bayer CropScience-BioScience</i> Engineering lignin biosynthesis for biofuels Tomas Vanek , Institute of Experimental Botany, Prague, CZ (25 + 5 min) S31 Plant biotechnology for the removal of organic and metal pollutants and toxic metals from waste waters and contaminated sites Hely Haeggman , University of Oulu, FI (15 + 5 min) S32 Biosafety of Genetically modified forest trees – specific emphasis on biological interactions
10:30	Coffee break	
11:00 – 13:00	Achieving quality IV: From metabolites and recombinant proteins to plant-made-pharmaceuticals Chair: Maurice Moloney , Calgary, CA	Speakers: Maurice Moloney , Rothamsted Research, UK (30 + 5 min) S33 Oilseed-based biopharmaceutical production: from clone to clinic Kazuki Saito , Chiba University / RIKEN, Yokohama, JP (25 + 5 min) S34 <i>Sponsored by VTT Technical Research Centre of Finland</i> Omics-based understanding of biosynthetic systems of plant specialized products Eva Stoger , University of Natural Resources and Applied Life Sciences, Vienna, AT (25 + 5 min) S35 Human Anti-HIV1 antibodies in plants Werner Roos , Martin Luther University Halle, DE (15 + 5 min) S61 Plant secondary metabolism – a treasure and a burden
13:00 – 15:00	Lunch and networking	
13:30 – 15:00	Poster Session II Chair: Kristiina Mäkinen , Helsinki, FI	13:30 – 13:45 Opening and short presentations of two selected posters: Andrea Pitzschke P73 Yaroslav Blume P85 13:45 – 14:20 Uneven poster numbers will be attended 14:20 – 15:00 Even poster numbers will be attended
15:00 – 17:00	Achieving quality V: Plants with improved nutritional quality and value Chair: Bruce Osborne , Dublin, IE	Speakers: Bruce Osborne , University College Dublin, IE (30 + 5 min) S38 <i>Co-sponsored by Südzucker AG and MTT Agrifood Research Finland</i> Novel crops and novel traits (EPSO paper to be published in 2010/2011) Riitta Puupponen-Pimiä , VTT, Espoo, FI (25 + 5 min) S39 <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Therapeutically active berry compounds – effects on human health in clinical intervention Michal Oren-Shamir , Volcani Centre, Bet-Dagan, IL (25 + 5min) S62 Stability and degradation of anthocyanins in fruit and ornamentals Jan K. Schjoerring , University of Copenhagen, DK (15 + 5 min) S63 Enhanced content and bioavailability of Fe and Zn in the endosperm of seeds from rice plants over-expressing nicotianamine synthase

17:00	Coffee Break		
17:30 – 18:30	Achieving quality II: From photosynthesis to solar fuels Chair: Eva-Mari Aro , Turku, FI	Speakers: Eva-Mari Aro , University of Turku, FI (35 + 5 min) S64 <i>Sponsored by FESPB</i> Trends and breakthroughs on photosynthesis and solar fuels – news from the China congress August 2010 Kazimierz Strzalka , Jagiellonian University, Krakow, PL (15 + 5 min) S28 Role of lipids in the molecular mechanism of photoprotection of the photosynthetic machinery by violaxanthin de-epoxidation	
18:30 – 19:30	Keynote Chair: Wilhelm Gruissem , Zurich, CH	Speaker: Olivier Voinnet , University Strasbourg, FR (50 + 10 min) S65 Cell to Cell Movement of RNA Silencing Signals	
20:00	Shuttles to the Conference Dinner		
20:45	Conference Dinner with concert	Karin Metzlaff , Brussels, BE & Kirsi-Marja Oksman-Caldentey , Espoo, FI: Prizes for the three best posters will be awarded Conference 2012 will be announced Close of the conference	
Thursday	2 September 2010		
9:00 – 10:30	Workshop ETP Plants for the Future Chairs: Ulrich Schurr , Julich, DE Karin Metzlaff , Brussels, BE	Input from the conference participants towards the Research Action Plan of the European Technology Platform “Plants for the Future”	W2
11:15	Departure		

Time Schedule

Morning				Afternoon				Evening	
Sunday, 29 August 2010									
		12 – 17:00		16 – 19:00	19-20:30	Break	20:45-22:30		
		EPSO General Meeting		Registration; Coffee at 18:00	Opening Keynote		Welcome reception		
Monday, 30 August 2010									
9 - 11:00	Break	11:30 – 13:30	13:30-15:00	15 – 17:00	Break	17:30 – 19:30	Break	20 – 22:00	
T2S1 Crop genomes	Cof-fee	T2S2 Breeding tools and strategies	Lunch; Poster viewing; Network	T5S1 Plant health	Cof-fee	T1: Plant science in Europe and beyond	Dinner	Poster session; Outreach workshop	
Tuesday, 31 August 2010									
8:30 - 10:30	Break	11 -13:00	13 – 16:30		Break	17 – 18:30	Break	19:30 – 21:30	
T5S2 Climate change and plant production	Cof-fee	T5S3 climate, ecosystems, genomics	Excursion		Cof-fee	T5S4 Biodiversity	Dinner	T4S1 Plant architecture for traits	
Wednesday, 1 September 2010									
8:30 - 10:30	Break	11 – 13:00	13-15:00	15 – 17:00	Break	17:30- 18:30	18:30- 19:30	Break	20:45 – 23:00
T4S3 Tree biology for multiple uses	Cof-fee	T4S4 Metabolites for pharma- ceuticals	Lunch; Poster session; Network	T4S5 Metabolites for nutritional value	Cof-fee	T4S2 Photo- synthe- sis for solar fuels	Key- note	Shut-tle	Conference dinner with concert Closing
Thursday, 2 September 2010									
9 - 10:30	11:15								
Workshop ETP Plants for the Future	Departure								

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

Members of the **organising committee**: Raoul Bino, Wilhelm Gruissem, Jacek Hennig, Jonathan Jones, Christophe Plomion, Karin Metzloff (EPSO coordinator), Eva-Mari Aro, Pere Puigdomènech, Ulrich Schurr, Chiara Tonelli and Erkki Truve.

Members of the **local committee**: Eva-Mari Aro, Paula Elomaa, Hely Häggman, Jaakko Kangasjärvi, Kristiina Mäkinen, Kirsi-Marja Oksman-Caldentey (local coordinator), Tapio Palva, Heiko Rischer, Anneli Ritala, Alan Schulman and Teemu Teeri.

Conference **secretariat**: Nadia Khawaja (EPSO conference secretariat), Dorothee Bongaerts (EPSO) and Eva Fredriksson (local assistant)