

	<p><b>European Plant Science Organisation</b>  <b>5<sup>th</sup> EPSO Conference</b>  <b>‘Plants for Life’</b></p> <p>Olos Polar Center (Lapland), Finland  <b>29 August – 02 September 2010</b>  <a href="http://www.epsoweb.org/event/conference/finland-2010">http://www.epsoweb.org/event/conference/finland-2010</a></p>	
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<p><b>Programme by 11<sup>th</sup> August 2010</b>  All speakers are confirmed</p>
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<b>Sunday</b>		<b>29 August 2010</b>	
From 16:00	Registration <b>Exhibition I</b>	Sunday 15:00 – Monday 14:00 <i>Oxford University Press, Agowa GmbH</i>	
19:45 – 21:15	<b>Opening and keynote</b> <b>Chairs:</b> <b>Karin Metzloff</b> , Brussels, BE <b>Kirsi-Marja Oksman-Caldentey</b> , Espoo, FI	<b>Speakers:</b> <b>Karin Metzloff</b> and <b>Kirsi-Marja Oksman-Caldentey</b> (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  <b>Leena Mannonen</b> , 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  <b>Eero Vuorio</b> , FI (10 min) <i>Director Biocenter Finland</i> Biocenter Finland - a unique solution towards development of nation-wide technology platforms and research infrastructures  <b>Jonathan Jones</b> , Norwich, UK (60 min) <span style="float: right;"><b>S01</b></span> <i>Professor at The Sainsbury Laboratory</i> Keynote: Understanding defence mechanisms and enhancing crop disease resistance	
21:30 – 23:00	Welcome buffet dinner		
<b>Monday</b>		<b>30 August 2010</b>	
9:00 – 11:00	<b>Achieving sustainability I: Crop genomes for sustainable agriculture</b> <b>Chair:</b> Mike Bevan, Norwich, UK  <i>Session co-sponsored by Syngenta</i>	<b>Speakers:</b> <b>Mike Bevan</b> , John Innes Center Norwich, UK (30 + 5 min) <span style="float: right;"><b>S07</b></span> Genomics for food security: sequence and analysis of grass genomes  <b>Pere Puigdomenèch</b> , Center for Research in Agricultural Genomics, CSIC, Barcelona, ES (25 + 5 min) <span style="float: right;"><b>S13 bis</b></span> <i>Co-sponsored by The Plant Cell</i> Comparative genomics in <i>Cucurbitaceae</i>  <b>Jean-Christophe Glaszmann</b> , CIRAD Montpellier, FR (25 + 5 min) <span style="float: right;"><b>S09</b></span> <i>Co-sponsored by TSV, Federation of Finnish Learned Societies</i> Genomics-based exploitation of germplasm diversity in major tropical crops  <b>Alan Schulman</b> , MTT, University of Helsinki, FI (15 + 5 min) <span style="float: right;"><b>S10</b></span> Exploitation of <i>Brachypodium</i> and rice genome synteny to clone a yellow rust resistance gene from wheat	
11:00	Coffee break		
11:30 – 13:30	<b>Achieving sustainability II: Breeding tools and strategies</b> <b>Chair:</b> Arjen van Tunen, Wageningen, NL	<b>Speakers:</b> <b>Arjen van Tunen</b> , Keygene, Wageningen, NL (30 + 5 min) <span style="float: right;"><b>S11 bis</b></span> <i>Sponsored by Dow Agrosiences</i> Crop specific genomic tools for variety improvement	

		<p><b>Maarten Koornneef</b>, Max Planck Institute Plant Breeding Research, Cologne, DE (25 + 5 min) <b>S55</b>  <i>Sponsored by TSV, Federation of Finnish Learned Societies</i>  Genetics and molecular biology of seed dormancy</p> <p><b>Andreas Graner</b>, IPK Gatersleben, DE (25 + 5 min) <b>S56</b>  <i>Sponsored by MTT Agrifood Research Finland</i>  Towards genomics-driven breeding of barley (<i>Hordeum vulgare</i>): challenges and opportunities</p> <p><b>Richard Thompson</b>, INRA UMR, Dijon, FR (15 + 5 min) <b>S14</b>  Sustainable agriculture in Europe with legume crops</p>
13:30 – 15:00	Lunch and Poster viewing, networking <b>Exhibition II</b>	Monday 15:00 – Tuesday 14:00 <i>The Genome Analysis Centre, European Science Foundation</i>
15:00 – 17:00	<p><b>Strengthening the functioning of ecosystems I: Improvements in plant health</b>  <b>Chair: Thomas Boller</b>, Basel, CH</p>	<p><b>Speakers:</b></p> <p><b>Thomas Boller</b>, University of Basel, CH (30 + 5 min) <b>S41</b>  <i>EMBO lecture</i>  The role of pattern recognition receptors in plant disease resistance</p> <p><b>Ulrich Schurr</b>, Forschungszentrum Jülich, DE (25 + 5 min) <b>S42</b>  <i>Sponsored by Keygene</i>  Plant phenotyping: Overcoming bottlenecks, novel perspectives and integration (Conclusions from the EPSO Workshop, Jülich, November 2009)</p> <p><b>Dierk Scheel</b>, Leibniz Institute of Plant Biochemistry, Halle, DE (25 + 5 min) <b>S44</b>  Plant-microbe interaction in the rhizosphere – a metabolomic approach</p> <p><b>Bruno Touraine</b>, Université Montpellier 2, FR (15 + 5 min) <b>S57</b>  Arabidopsis-rhizobacteria as a model system to study plant plasticity</p>
17:00	Coffee break	
17:30 – 19:30	<p><b>Science policy: Plant science in Europe and beyond</b>  <b>Chair: Wilhelm Gruissem</b>, Zurich, CH &amp; <b>Karin Metzloff</b>, Brussels, BE</p>	<p><b>Speakers:</b></p> <p><b>Wilhelm Gruissem</b>, Zurich, CH (25 + 5 min) <b>S02</b>  <i>President of the European Plant Science Organisation</i>  Food security—risks and challenges for the European Bioeconomy</p> <p><b>Patricia Reilly</b>, Brussels, BE (25 + 5 min) <b>S58</b>  <i>European Commission, Cabinet Geoghegan-Quinn</i>  Potential of future research and innovation for the Bioeconomy in Europe and beyond</p> <p><b>Tim Willis</b>, Swindon, UK (25 + 5 min) <b>S04</b>  <i>Head International relations unit BBSRC</i>  The Joint Programming Initiative “Agriculture, Food Security and Climate Change”</p> <p><b>Shivaji Pandey</b>, FAO, Rome, IT (25 + 5 min) <b>S06</b>  <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</p> <p>▪ <b>Poster Session I with drinks</b>  <b>Chair: Dénes Dudits</b>, BRC Szeged, HU</p> <p>▪ <b>Workshop Outreach and education</b>  <b>Chair: Jan Kellmann</b>, MPICE, Jena, DE</p>	<p>20:00 – 20:20 Opening and short presentations of two selected posters:  Shaul Yalovsky <b>P109</b>  Anahit Galstyan <b>P27</b></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 <b>W1</b></p>

Tuesday		31 August 2010	
8:30 – 10:30	<b>Strengthening the functioning of ecosystems II: Climate change impact on plant production</b> Chair: Heribert Hirt, Evry, FR	<b>Speakers:</b>  <b>Heribert Hirt</b> , INRA, Evry, FR (30 + 5 min) <b>S59</b> <i>Sponsored by Distinguished Scientist Fellowship Program, King Saud University</i> Novel strategies to improve stress tolerance in plants  <b>Philippe Ciais</b> , Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette, FR (25 + 5 min) <b>S05</b> Drivers and response of the global carbon cycle  <b>Chiara Tonelli</b> , University of Milano, IT (25 + 5 min) <b>S46</b> <i>Sponsored by Bayer CropScience-BioScience</i> Plant Productivity (Conclusions from the EPSO Workshop, Ghent, September 2009)  <b>Mark Fennell</b> , University College Dublin, IE (15 + 5 min) <b>S47 bis</b> 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	<b>Strengthening the functioning of ecosystems III: Climate, ecosystems and genomics</b> Chair: Ian Woodward, Sheffield, UK	<b>Speakers:</b>  <b>Ian Woodward</b> , University of Sheffield, UK (30 + 5 min) <b>S48</b> <i>Sponsored by Conviron</i> Climate, ecosystems and genomics  <b>Jenny McElwain</b> , University College Dublin, IE (25 + 5 min) <b>S49</b> <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Response of biodiversity and ecosystem function to past global warming events  <b>Gail Taylor</b> , Plants & Environment Lab, University of Southampton, UK (25 + 5 min) <b>S50 bis</b> Understanding plastic and adaptive plant responses to climate change using molecular genetic and genomic approaches  <b>Alexander Platt</b> , Gregor Mendel Institute, Vienna, AT (15 + 5 min) <b>S51</b> Population structure and gene flow in <i>Arabidopsis thaliana</i>	
13:00 – 16:30	Excursion <b>Exhibition III</b>	Tuesday 15:00 – Wednesday 19:00 <i>The Genome Analysis Centre, Lemnatec GmbH</i>	
17:00 – 18:30	<b>Strengthening the functioning of ecosystems IV: Biodiversity</b> Chair: Bernhard Schmid, Zürich, CH	<b>Speakers:</b>  <b>Bernhard Schmid</b> , University of Zurich, CH (30 + 5 min) <b>S52</b> <i>Sponsored by TSV, Federation of Finnish Learned Societies</i> Plant biodiversity effects  <b>Hugh W. Pritchard</b> , Royal Botanic Gardens, Kew, UK (25 + 5 min) <b>S54</b> Characterising seed biodiversity for functional performance under saline conditions  <b>Jelena Aleksić</b> , Institute of Molecular Genetics and Genetic Engineering, Belgrade, SB (15 + 5 min) <b>S60</b> 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	<b>Achieving quality I: From plant architecture to traits</b> Chair: Jan Traas, Lyon, FR	<b>Speakers:</b>  <b>Jan Traas</b> , INRA, Lyon, FR (30+5 min) <b>S15</b> From gene networks to morphogenesis  <b>Jane Langdale</b> , University of Oxford, UK (25 + 5 min) <b>S16</b> <i>Sponsored by Südzucker AG</i> The evolution and development of leaves  <b>Dani Zamir</b> , Hebrew University of Jerusalem, Rehovot, IL (25 + 5 min) <b>S17 bis</b>	

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

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

## Time Schedule

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