



European Plant Science Organisation

5th EPSO Conference

'Plants for Life'

Olos Polar Center (Lapland), Finland
18 – 22 April 2010

www.epsoweb.org/catalog/conf2010.htm



Early deadline for registration: **15th December 2009**

Programme by 11th December 2009

Confirmed speakers in bold

Sunday 18 April 2010	
From 13:00	Registration
15:00 – 16:30	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 Local Conference Organiser and Head of Medical Biotechnology Department, VTT, Finland</i> Welcome from EPSO Henna Virkunen, FI (10 min), t.b.c. <i>Minister of Science and Education</i> 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 Jonathan Jones , Norwich, UK (60 min) <i>Professor at The Sainsbury Laboratory</i> Keynote
16:30 – 17:00	Break
17:00 – 20:00	Plant science in Europe and beyond – Science policy Chair: Wilhelm GUISSEM , Zürich, CH & Karin Metzloff , Brussels, BE
	Speakers: Wilhelm GUISSEM , Zürich, CH (25 + 5 min) <i>President of the European Plant Science Organisation</i> Jianmin Wan, CN (25 + 5 min), t.b.c. <i>Director of the Crop Research Institute, Chinese Academy of Agricultural Science</i> Title t.b.a. Pascal Bergeret , Paris, FR (25 + 5 min) <i>Standing Committee on Agricultural Research (SCAR)</i> Title t.b.a. Klaus-Dieter Borchardt , Brussels, BE (25 + 5 min) <i>Head of Cabinet – DG Agriculture European Commission</i> Challenges, actions and perspectives for agriculture in Europe and beyond EU Commissioner for Research and Innovation (25 + 5 min), t.b.a. Title t.b.a. t.b.a. (25 + 5 min) Journalist
20:00 – 22:30	Welcome reception

Monday 19 April 2010	
8:30 – 10:30	<p>Achieving sustainability I: Crop genomes for sustainable agriculture Chair: Mike Bevan, Norwich, UK</p> <p><i>Session co-sponsored by Syngenta</i></p>
	<p>Speakers:</p> <p>Mike Bevan, Norwich, UK (30 + 5 min) Genomics for food security: sequence and analysis of grass genomes</p> <p>Rod Wing, Tucson, US (25 + 5 min) Development and analysis of comparative genomics platforms for closely related species: <i>Oryza</i> and <i>Brassicaceae</i> as case studies</p> <p>Jean-Christophe Glaszmann, Montpellier, FR (25 + 5 min) Genomics-based exploitation of germplasm diversity in major tropical crops</p> <p>Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.</p>
10:30 11:00 – 13:00	<p>Coffee break</p> <p>Achieving sustainability II: Breeding tools and strategies Chair: Anker Sørensen, Wageningen, NL</p>
	<p>Speakers:</p> <p>Anker Sørensen, Wageningen, NL (30 + 5 min) Crop specific genomic tools for variety improvement</p> <p>Theo Meuwissen, Ås, NO (25 + 5 min) Use of genome-wide selection in livestock species</p> <p>Robbie Waugh, Dundee, UK (25 + 5 min) Association mapping in elite UK barleys</p> <p>Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.</p>
13:00 – 16:00	Lunch and optional outdoor networking activity
16:00 – 18:00	<p>Achieving quality I: From plant architecture to traits Chair: Jan Traas, Lyon, FR</p>
	<p>Speakers:</p> <p>Jan Traas, Lyon, FR (30+5 min) From gene networks to morphogenesis</p> <p>Jane Langdale, Oxford, UK (25 + 5 min) The evolution of shoot systems</p> <p>Dani Zamir, Rehovot, IL (25 + 5 min) Genes for yield heterosis in tomato</p> <p>Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.</p>
18:00 18:30 – 20:30	<p>Coffee break</p> <p>Science and society: Food security and safety – challenges ahead Chair: Timothy Hall, Brussels, EU Panel discussion</p>
	<p>Panel members:</p> <p>Timothy Hall, Brussels, BE (10 min) Food security – a complex set of challenges requiring innovative solutions</p> <p>Barbara Burlingame, Rome, IT (10 min) Biodiversity and nutrition: synergies in the agriculture, health and environment sectors</p> <p>Paula Bramel, Ibadan, NG (10 min) The challenges of food security and safety in African agricultural development</p> <p>Jaana Husu-Kallio, Helsinki, FI (10 min) Risk-based control and food safety</p> <p>Thierry de l'Escaille, Brussels, BE (10 min) Title t.b.a.</p> <p>Thomas Ohlsson, Gothenburg, SE (10 min) Life cycle analysis of food products</p>

20:30 – 21:30	Dinner	Discussion (60 min)
21:00 – 23:00	Postersession I with drinks Chair: Dénes Dudits, Szeged, HU	21:00 – 21:20 Opening and short presentations of three selected posters (t.b.a.) 21:20 – 22:10 Even poster numbers will be attended 22:10 – 23:00 Uneven poster numbers will be attended
Tuesday	20 April 2010	
8:30 – 10:30	Achieving quality II: From photosynthesis to solar fuels Chair: Jim Barber, London, UK	Speakers: Jim Barber , London, UK (30 + 5 min) Can we build an artificial leaf for solar fuel production? Bill Rutherford , Gif-sur-Yvette, FR (25 + 5 min) Water oxidation by photosystem II and bioinspired chemical models Roberto Bassi , Firenze, IT (25 + 5 min) Domestication of wild green algae for growth in photobioreactors Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.
10:30	Coffee break	
11:00 – 17:00	Excursion	
17:30 – 19:30	Achieving quality III: Tree biology for multiple uses Chair: Stefan Jansson, Umea, SE	Speakers: Stefan Jansson , Umeå, SE (30 + 5 min) Natural variation in aspen Wout Boerjan , Ghent, BE (25 + 5 min) Engineering lignin biosynthesis for biofuels Gerald Tuskan , Oak Ridge, US (25 + 5 min) Title t.b.a. Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.
19:30 – 20:30	Dinner	
20:30 – 22:30	Poster session II with drinks Chair: Kristiina Mäkinen, Helsinki, FI	20:30 – 20:50 Opening and short presentations of three selected posters, t.b.a. 20:50 – 21:40 Even poster numbers will be attended 21:40 – 22:30 Uneven poster numbers will be attended
Wednesday	21 April 2010	
8:30 – 10:30	Achieving quality IV: From metabolites and recombinant proteins to plant-made-pharmaceuticals Chair: Maurice Moloney, Calgary, CA	Speakers: Maurice Moloney , Calgary, CA (30 + 5 min) Oilseed-based biopharmaceutical production: from clone to clinic Kazuki Saito , Yokohama, JP (25 + 5 min) Omics-based understanding of biosynthetic systems of plant specialized products Eva Stoger , Vienna, AT (25 + 5 min) Human Anti-HIV1 antibodies in plants Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.
10:30	Coffee break	
11:00 – 13:00	Achieving quality V: Plants with improved nutritional quality and value Chair: Paul Christou, Lleida, ES	Speakers: Paul Christou , Lleida, ES (30 + 5 min) Strategies for the creation of staple crops with multiple nutritional components – the BIOFORCE programme Wilhelm Gruissem , Zürich, CH (25 + 5 min) Novel crops and novel traits (EPSO paper to be published in 2009/2010) Riitta Puupponen-Pimiä , Espoo, FI (25 + 5 min) Therapeutically active berry compounds – effects on human health in clinical intervention Speaker selected from abstracts (15 + 5 min), t.b.a.

13:00 – 16:00	Lunch and optional outdoor networking activity	Title t.b.a.
16:00 – 18:00	Strengthening the functioning of ecosystems I: Improvements in plant health Chair: Thomas Boller , Basel, CH	Speakers: Thomas Boller , Basel, CH (30 + 5 min) <i>co-sponsored by EMBO</i> Title t.b.a. Ulrich Schurr , Jülich, DE (25 + 5 min) Plant phenotyping (Conclusions from the EPSO Workshop, Jülich, November 2009) Jörg Bohlmann , Vancouver, CA (25 + 5 min) Terpenoid defenses and conifer forest health Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.
18:00	Coffee Break	
18:30 – 20:30	Strengthening the functioning of ecosystems II: Climate change impact on plant production Chair: Reinhart Ceulemans , Antwerp, BE	Speakers: Reinhart Ceulemans , Antwerp, BE (30 + 5 min) Global changes: threat or opportunity for plants and ecosystems? Chiara Tonelli , Milano IT and Dirk Inzé , Ghent BE (25 + 5 min) <i>sponsored by Bayer CropScience-BioScience</i> Plant Productivity (Conclusions from the EPSO Workshop, Ghent, September 2009) Philippe Ciaï , Gif-sur-Yvette, FR (25 + 5 min) Title t.b.a. Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.
20:30	Conference Dinner	Prices for the three best posters will be awarded
Thursday	22 April 2010	
8:30 – 10:30	Strengthening the functioning of ecosystems III: Climate, ecosystems and genomics Chair: Ian Woodward , Sheffield, UK	Speakers: Ian Woodward , Sheffield, UK (30 + 5 min) Global scale impacts of climate change Jenny McElwain , Dublin, IE (25 + 5 min) Franco Miglietta , Firenze, IT (25 + 5 min) Ecosystem level adaptation to high CO ₂ Speaker selected from abstracts (15 + 5 min), t.b.a. Title t.b.a.
10:00	Coffee break	
10:30 – 12:30	Strengthening the functioning of ecosystems IV: Biodiversity Chair: Bernhard Schmid , Zürich, CH	Speakers: Bernhard Schmid , Zürich, CH (30 + 5 min) Plant biodiversity effects Tom Whitham , Flagstaff, US (25 + 5 min) The community genetics of biodiversity Richard Hobbs , Crawly, AU (25 + 5 min) Maintaining and restoring ecosystem function in a rapidly changing world Speaker selected from abstract (15 + 5 min), t.b.a. Title t.b.a.
12:30 – 13:00	Closing	Karin Metzloff and Kirsi-Marja Oksman-Caldentey <i>Executive Director of the European Plant Science Organisation, and Local Conference Organiser and Head of Medical Biotechnology Department, VTT, Finland</i>
13:00	Departure	

Preliminary programme

Morning			Afternoon				Evening	
8:30 - 10:30	Break	11 – 13:00	Break	15 – 17:00	Break	17:30 – 19:30	Break	20 – 22:00
Sunday, 18 April 2010								
			Registration	Opening Keynote		T1: Plant science in Europe and beyond – Science policy Welcome reception		
8:30 - 10:30	Break	11 – 13:00	Break	16 – 18:00	Break	18:30 – 20:30	Break	21 – 23:00
Monday, 19 April 2010								
T2S1 Crop genomes		T2S2 Breeding tools and strategies	Lunch + optional outdoor activity*	T4S1 Plant architecture for traits		T3 Science and society: Food security		Poster session
Tuesday, 20 April 2010								
T4S2 Photo-synthesis for solar fuels		Excursion				T4S3 Tree biology for multiple uses		Poster session
Wednesday, 21 April 2010								
T4S4 Metabolites for pharmaceuticals		T4S5 Metabolites for nutritional value	Lunch + optional outdoor activity*	T5S1 Plant health		T5S2 Climate change and plant production		Conference dinner
Thursday, 22 April 2010								
T5S3 climate, ecosystems, genomics		T5S4 Biodiversity	Closing Departure					

* Possibilities for outdoor networking activities (alpine skiing, cross-country skiing, snowshoe walking and sledging) directly by the hotel.

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 Puigdomenech, 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) and Annemari Kuokka-Ihalainen (local assistant)