



Program, final 27 Oct 2002
Networks in Plant Biology - 1st EPSO Conference
 Seehotel Waldstätterhof, Brunnen, Switzerland
 27. - 31. Oct. 2002
<http://www.epsoweb.org/catalog/conf2002.htm>



Sunday		
From 12:00 14:30 - 17:10	Registration Opening Chair: Karin Metzloff , Gent, BE & Thomas Hohn , Basel, CH System Approaches I: Genetic Regulatory Networks Chair: Michael Bevan , Norwich, UK	Speakers: Bruno Hansen , Brussels, BE European Commission, Director at DG Research Gian-Reto Plattner , Basel, CH Swiss Council of States, Vice-President Speakers: Nathan Price , San Diego, US Analysis of cellular constraints using omics data Oliver Fiehn , Golm, DE Plant metabolomic co-response networks Jan Kim , Luebeck, DE Towards integrated dynamical modelling of regulatory dynamics and plant morphogenesis Dirk Inze , Gent, BE Systems biology of the plant cell cycle Klaus Mayer , Munich, DE Bioinformatic analysis of regulatory elements of multigene families within the Arabidopsis genome
17:10 17:30 - 19:30	Break Basic Processes I: Plant-Microbe Interaction Chair: Barbara Hohn , Basel, CH Sponsored by EMBO	Speakers: Paul Schulze-Lefert , Cologne, DE Induced cell polarity in plant pathogen defense Rainer Haas , Munich, DE Structure and function of type IV secretion systems in the human pathogen <i>Helicobacter pylori</i> Myriam Duckely , Basel, CH The VirE2 protein of Agrobacterium and its dual function in Agrobacterium T-DNA transfer Michael Lassner , Redwood City, US Using directed molecular evolution to manipulate plant-microbe interactions in favour of the farmer and consumer Uta Paszkowski , San Diego, US The Maize nopel involved in pre-symbiotic recognition of roots by arbuscular mycorrhizal fungi Bart Thomma , Heverlee-Leuven, BE Differentially acting signaling cascades define Arabidopsis pathogen defense
19:30 - 21:00 21:00 - 23:00	Dinner Keynote Plant Science Chair: Chris Bowler , Naples, IT Followed by Welcome Reception	Speaker: Richard B Flavell , Malibu, US European plant science-past, present and future

Monday		
08:30 - 10:30	Sustainable Development I: Environment Chair: Hans Bohnert, US	Speakers: Thomas Mitchell-Olds , Jena, DE The ecological significance of genetic variation in plant populations Maria Harrison , Ardmore, US The arbuscular mycorrhiza symbiosis Denes Dudits , Szeged, HU Engineering of oxidative stress response to improve environmental adaptation Jean-Paul Schwitzguébel , Lausanne, CH Wastewater treatment: green plants – a European approach Gad Miller , Tel Aviv, IL Proline and osmotic stress tolerance; is there a functional linkage?
10:30	Break	
11:00 - 13:00	Food Quality I: Metabolism Chair: Mark Stitt, Golm, DE	Speakers: Alison Smith , Norwich, UK Engineering new starches Ingo Potrykus , ETH, Zurich, CH “Golden rice” and beyond: scientific and political developments Kirsi-Marja Oksman-Caldentey , Espoo, FI A novel approach to unravel plant secondary metabolism Victoria Nikiforova , Golm, DE Correlating metabolites altered by sulphate metabolism embellish network of transcriptional metabolism Marcel Bucher , Lindau, CH Mycorrhiza-specific exúpression of a potato phosphate translocator
13:00	Lunch	
14:30 – 16:30	System Approaches II: Plant Genomes Chair: Steve Briggs, San Diego, US	Speakers: Stephen Goff , San Diego, US Developing rice as a model cereal Joe Ecker , La Jolla, US Whole-genome functional analysis in Arabidopsis Hauke Holtorf , Freiburg, DE Plant functional genomics using Physcomitrella Holger Puchta , Karlsruhe, DE Plant genomes: mechanisms of change and a surprising peculiarity in DNA metabolism Luca Comai , Seattle, US Tilling, a general tool for reverse genetics and for the discovery of polymorphisms
16:30	Break	
17:00 - 19:00	Basic Processes II: Silencing Chair: David Baulcombe, Norwich, UK	Speakers: Jurek Paszkowski , Basel, CH Genetics of DNA methylation in <i>Arapidopsis</i> David Baulcombe , Norwich, UK Gene silencing in plants - mechanisms, roles and applications Jim Carrington , Pullman, US Small RNA functions in plants

		<p>Thomas Hohn, Basel, CH RNAi as a tool to cure geminivirus infections</p> <p>Helene Lucas, Versailles, FR Silencing of invading DNA: the case of plant LTR-retrotransposons</p> <p>Daniel Silhavy, Gödöllő, HU Low temperature inhibits RNA silencing-mediated plant defense by the control of small interfering RNA generation</p>
19:00 – 19:45	<p>Discussion on future Directions & Means of Research: System Approaches & Basic Processes Chair: Wilhelm Grissem, Zurich, CH Co-sponsored by the Company of Biologists Ltd</p>	<p>Panelists:</p> <p>David Baulcombe, Norwich, UK Michael Bevan, Norwich, UK Steve Briggs, San Diego, US Barbara Hohn, Basel, CH Detlef Weigel, Tuebingen, DE Marc Zabeau, Gent, BE</p>
19:45	Dinner	
21:00 - 23:00	<p>Posters I: System Approaches & Basic Processes Chair: Pierre de Wit, Wageningen, NL</p>	
Tuesday		
08:30 - 11:00	<p>Panel Discussion: Biotech and Acceptance Chairs: Therese St Peter, Syngenta, Basel, CH & Petra Lehner, Arbeiterkammer, Vienna, AU</p>	<p>Panelists:</p> <p>C.S. Prakash, Tuskegee University, US Acceptance of plant biotechnology in developing countries</p> <p>Robert Tripp, Overseas Development Institute London, UK Can biotechnology reach the poor</p> <p>Peter Widemann, Institute Phytosfere, Juelich, DE Exploring sustainable biotech future . A stakeholder approach</p> <p>Helge Torgersen, Institute of technology Assessment, Vienna, AU The lack of acceptance – some myths revisited</p>
11:00 – 12:30	<p>Press Conference Moderators: Karin Metzloff, Gent, BE & Thomas Hohn, Basel, CH</p>	<p>Participants: <i>Journalists & 5 experts only</i></p> <p>Experts: <i>Michael Bevan, UK</i> <i>Steve Briggs (t.b.c.), US</i> <i>Richard B Flavell, US</i> <i>Jim Peacock, AUS</i> <i>Marc Zabeau, BE</i></p>
11:30 – 17:30	Excursion afternoon	
12:30 – 17:30	3rd EPSO General Meeting	<p>Participants: <i>EPSO member representatives only</i></p>
17:30 - 19:30	<p>Panel Discussion: Interaction with Companies Chair: Dirk Inze, VIB Gent, BE & Bernard Marantelli, Monsanto, Brussels, BE</p>	<p>Panelists:</p> <p>David Lawrence, Syngenta, Basel, CH</p> <p>Richard Trethewey, Metanomics, Berlin, DE Metabolite profiling: linking gene to function, directly</p> <p>Wim van Camp, Crop Design, Gent, BE TraitMill: closing the application gap in functional genomics</p> <p>Detlef Weigel, MPI Tuebingen, DE</p> <p>Chris Bowler, Stazione Zoologica, Napoli, IT</p> <p>Michael Bevan, JIC Norwich, UK</p>
21:00	Conference Dinner with Jazz Guitarist Michael Hammond-Kosack, Cambridge, UK	

Wednesday		
08:30 - 10:30	Sustainable Development II: Biodiversity Chair: Adam Kondorosi , Gif-sur-Yvette, FR	Speakers: Pat Heslop-Harrison , Leicester, UK Ancient and modern: Biodiversity of development Heinz Saedler , Cologne, DE A scientific approach towards understanding biodiversity Dieter Haas , Lausanne, CH Signaling in plant-beneficial, root-colonizing bacteria Martin Parniske , Norwich, UK Dissection of signaling pathways leading to root symbioses fungi and bacteria Bari Miah , Rajshahi, BD Genetic variability and conservation of betavine (Piper betle L.) cultivars in Bangladesh
10:30	Break	
11:00 - 13:00	Food Quality III: Breeding Chair: Maarten Koornneef , Wageningen, NL	Speakers: Francesco Salamini , Cologne, DE Nature and extent of plant variability support a revision of marker assisted selection Dani Zamir , Jerusalem, IL Improving plant breeding using exotic genetic libraries: tomato as a model Maarten Koornneef , Wageningen, NL Improving food quality by exploiting natural variation of plants Evert Jacobsen , Wageningen, NL Allergy matters
13:00	Lunch	
14:30 - 16:30	System Approaches III: Genomic Scale Expression Profiling Chair: Marc Zabeau , Gent, BE	Speakers: Detlef Weigel , Tuebingen, DE Transcriptional responses during floral induction Pierre Hilson , Gent, BE Resources for functional analysis in Arabidopsis Shimon Gepstein , Haifa, IL Expression Profiling during Leaf Senescence James Murray , Cambridge, UK Analysis of cell cycle regulated gene expression using MPSS and microarrays Kristina Gruden , Ljubljana, SLO Analysis of insect adaptation by DNA microarrays
16:30	Break	
17:00 - 19:00	Basic Processes III: Development Chair: Detlef Weigel , Tuebingen, DE	Speakers: Ottoline Leyser , York, UK The regulation of shoot branching in Arabidopsis Philip Benfey , New York, US Radial patterning: Signaling inside out Chris Bowler , Naples, IT The Photomorphogenesis Regulator DET1: a Putative Chromatin Remodelling Factor Rita Gross-Hardt , Zurich, CH Function of WUSCHEL during ovule development in Arabidopsis Linda Hanley-Bowdoin , Raleigh, US

		Geminiviruses and host gene expression Shaul Yalovsky , Tel-Aviv, IL Requirement for protein prenylation in the induction of cell polarity
19:00 – 19:45	Discussion on future Directions & Means of Research: Sustainable Development & Food Quality Chair: Mark Stitt , Golm, DE	Panelists: Hans Bohnert , US Richard Flavell , Malibu, US Adam Kondorosi , Gif-sur-Yvette, FR Maarten Koorneef , Wageningen, NL Jim Peacock , Canberra, AUS
19:45	Dinner	
21:00 - 23:00	Keynote Life Sciences Chair: Denes Dudits , Szeged, HU Followed by Posters II: Sustainable Development & Food Quality Chair: Kay Schneitz , Munich, DE	Speaker: Les Grivell , EMBO Heidelberg, DE Mining the Bibliome – Electronic Information Programmes
Thursday		
08:30 - 10:30	Sustainable Development III: New Products Chair: Richard Flavell , Malibu, US	Speakers: Richard Meagher , University of Georgia, US Strategies for the engineered phytoremediation of mercury and arsenic pollution. Yves Poirier , Lausanne, CH Production of bioplastics in plants Alain Boudet , Toulouse, FR Cell wall derived products - present and future Giovanni Giuliano , Roma, IT The tomato fruit as a cell factory for speciality compound Jens Kossmann , Roskilde, DK Novel avenues towards manipulating starch turnover and increasing starch accumulation
10:30	Break	
11:00 – 12:45	Food Quality II: Fruit Quality Chair: Jim Peacock , Canberra, AUS	Speakers: Jim Peacock , Canberra, AUS Genes controlling seed development Ueli Grossniklaus , Zurich, CH Maternal control of seed development Rod Scott , Bath, UK Genomic imprinting of sexual and asexual reproduction in flowering plants Sacco de Vries , Wageningen, NL Functional analysis of the AtSERK1 receptor
12:45 - 13:00	Closing Karin Metzloff , Gent, BE & Thomas Hohn , Basel, CH	
13:00	Departure	

We would like to thank our committee and secretariat members for organizing this conference:

Members of the Swiss organising committee: Wilhelm Gruissem, Thomas Hohn (coordinator), Jean-Pierre Mettraux, Kay Schneitz, Therese St Peter, Jean-Pierre Zryd.

Members of the scientific committee: David Baulcombe, Michael Bevan, Hans Bohnert, Chris Bowler, Steve Briggs, Pierre De Wit, Denes Dudits, Richard B Flavell, Barbara Hohn, Adam Kondorosi, Maarten Koorneef, Bernard Marantelli, Karin Metzloff (coordinator), Jim Murray, Jim Peacock, Mark Stitt, Detlef Weigel, Lothar Willmitzer, Marc Zabeau.

Conference secretariat: Diana Pauli, Sylvia Kraus, Anne-Marie Vanhee