



Plant Biology Congress Freiburg 2012

jointly organised by FESPB and EPSO

29 July - 3 August 2012

Albert-Ludwigs-University Freiburg
KG I & II



www.plant-biology-congress2012.de

Plant Biology Congress Freiburg 2012

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**July 29 to August 3, 2012
at the University of Freiburg**



Plant Scientists in Europe are represented by two independent organisations. The FESPB (Federation of European Societies of Plant Biologists) is the umbrella organisation of 27 national botanical societies in Europe, representing more than 24,000 individuals and has in addition several corporate members from the European industry. The EPSO (European Plant Science Organisation) unites more than 200 research institutions and universities from 30 countries. To date both organisations held strictly separate conferences.

For the first time, both organisations have agreed to hold a joint Plant Biology Congress 2012 at the University of Freiburg, Germany. This congress will highlight all aspects of plant biology with special emphasis on the consequences of global climate change and on feeding the global world population. From July 29 to August 3, 2012 plant scientist from all over the world are cordially invited to meet in the "Green City" of Freiburg.

Heinz Rennenberg and Ralf Reski



Opening

H. Rennenberg, K. Metzlaff, H.-J. Schiewer

Plenary Session 1

Green Biotechnology I

R. Dixon, Ardmore, USA / Green Biotechnology

Plenary Session 2

Climate Change and Stress

F. Loreto, Florence, Italy / Plant change to climate change

Regulation of Mineral (N,S,P) Nutrition and Metabolism I

A. Gojon, Montpellier, France / Regulation of nitrate acquisition in Arabidopsis

Parallell Session 1

Green Biotechnology

Chair: R. Dixon, Ardmore, USA

E. Pilon-Smits, Fort Collins, USA / Phytoremediation and biofortification – Selenium as a Case Study

Parallell Session 2

Climate Change and Stress

Chair: F. Loreto, Florence, Italy

C. Foyer, Leeds, United Kingdom / Roles for antioxidants in the regulation of growth and stress tolerance

Parallell Session 3

Regulation of Mineral (N,S,P) Nutrition and Metabolism I

Chair: A. Gojon, Montpellier, France

P. Millard, Lincoln, New Zealand / Nitrogen storage and remobilisation by plants: ecophysiological relevance in a changing world

Science Policy

Chairs: K. Metzlaff, Brussels, Belgium and

U. Schurr, Jülich, Germany

A. Schavan, Berlin, Germany – Minister for Education and Research

D. Ciolos, Brussels, Belgium – Commissioner for Agriculture and Rural Development

H. Reul, MEP, Germany

H. Hirt, Evry, France

P. Pesonen, Brussels, Belgium - CopaCogeca

Plenary Session 3

Systems Biology and Bioinformatics

G. Krouk, Montpellier, France / A systems view of N signalling integration

Photosynthesis and Respiration

A. Weber, Düsseldorf, Germany / Photorespiration

Plenary Session 4

Membrane and Long-Distance Transport

I. Dreyer, Madrid, Spain / K⁺ gradients – a mobile energy source for phloem (re)loading processes

Metabolism and Functions of Metals (Mo, Fe, Cu, Zn)

R. Mendel, Braunschweig, Germany / Metals in plants – cell biology and biochemistry

Parallell Session 4

Systems Biology and Bioinformatics

Chair: G. Krouk, Montpellier, France

C. Kuhlemeier, Bern, Switzerland / Modelling plant functions and development

Parallell Session 5

Photosynthesis and Respiration

Chair: A. Weber, Düsseldorf, Germany

J.-D. Rochaix, Genf, Switzerland / Chloroplast signalling during photosynthesis

Parallell Session 6

Membrane and Long-Distance Transport

Chair: I. Dreyer, Madrid, Spain

S. Dinant, Versailles, France / Long-distance transport

Parallell Session 7

Metabolism and Functions of Metals (Mo, Fe, Cu, Zn)

Chair: R. Mendel, Braunschweig, Germany

W. Gruissem, Zurich, Switzerland / Iron fortification in rice

Plenary Session 5

Gene Regulation

C. Dean, Norwich, United Kingdom / Linking non-coding RNAs and chromatin regulation in the control of flowering

Regulation of Mineral (N,S,P) Nutrition and Metabolism II

K. Saito, Chiba, Japan / Molecular and cellular regulation of sulfate uptake and assimilation – an overview

Wednesday, 1.8.2012

Plenary Session 6

Green Biotechnology II

P. Beyer, Freiburg, Germany / Golden rice on a mission

Plant-Microbe Interactions I

S. Radutoiu, Aarhus, Denmark / Recognition and signal transduction in legume root symbiotics

Plenary Session 7

Biomass for Bioenergy

M. H. Weih, Uppsala, Sweden / Biomass for bioenergy

Development and Evolution

D. Weigel, Tübingen, Germany / Biodiversity and evolution

Plenary Session 8

Plant Biology in Space

St. J. Roux, Austin, USA / Gravity responses in plants: Insights from studies in micro-g

Biosphere-Atmosphere Interactions

A. Arneth, Lund, Sweden / Volatile emission from plants

Parallell Session 8

Development and Evolution

Chair: D. Weigel, Tübingen, Germany

Ph. Hulme, New Zealand / Biological invasions

Parallell Session 9

Gene Regulation

Chair: C. Dean, Norwich, United Kingdom

*M. Hasebe, Okazaki, Japan / Molecular networks of reprogramming from a differentiated cell to a stem cell in the moss *Physcomitrella patens**

Parallell Session 10

Plant-Microbe Interactions

Chair: S. Radutoiu, Aarhus, Denmark

A. Fitter, York, United Kingdom / Regulation of fluxes in the arbuscular mycorrhizal symbiosis

Parallell Session 11

Engineering Carbon Fixation

Chair: R. Leegood, Sheffield, United Kingdom

R. Leegood, Sheffield, United Kingdom / Strategies for Engineering C₄ Photosynthesis

Plenary Session 9

Plant-Microbe Interactions II

C. Pieterse, Utrecht, The Netherlands / Plant diseases

Phytohormones

J. Friml, Ghent, Belgium / Phytohormone signalling

Science & Society

Contributions of Plant Science to Food Security

Friday, 3.8.2012

Parallell Session 12

Biomass for Bioenergy

Chair: M.H. Weih, Uppsala, Sweden

S. Mayfield, San Diego, USA / Algae for biofuel

Parallell Session 13

Biosphere-Atmosphere Interactions

Chair: A. Arneth, Lund, Sweden

S. Schmidt, Brisbane, Australia / Greenhouse gas emissions from agriculture and what we should do about it

Parallell Session 14

Phytohormone Signaling

Chair: J. Friml, Ghent, Belgium

Z.-Y. Wang, Stanford, USA / The brassinosteroid signalling network

Closing

Satellite Symposium “Plant Biology in Space”

In order to analyse the scientific progress, but also to identify critical research questions and needs for the future, ISLSWG frequently organizes so-called “Research Area Workshops”. This time, ISLSWG has teamed with FESPB and EPSO and will hold the workshop “Plant Biology in Space” as a satellite symposium to the Plant Biology Congress Freiburg 2012. This symposium will take place from August 1 to August 3, 2012. It will include a plenary lecture by Prof. Stan Roux (Univ. of Texas, Austin, USA) on Thursday morning as well as overview lectures and presentations of results from spaceflight experiments. Some 50 leading experts in the area of plant biology in space are expected to come to Freiburg, who will – in a closed session – also discuss strategic and programmatic issues.

The overall goal of the workshop is to summarize and demonstrate, especially to the non-involved scientist, what plant biology has learned in recent years from space experiments, which is – by the way - also the topic of the plenary lecture.

	Day 1 Sunday 29/07/12	Day 2 Monday 30/07/12	Day 3 Tuesday 31/07/12	Day 4 Wed.day 01/08/12	Day 5 Thursday 02/08/12	Day 6 Friday 03/08/12
08:00		Registra- tion	Registra- tion	Registra- tion	Registra- tion	Registra- tion
09:00		Opening	Plen 3:	Plen 6:	Plen 8:	Par 12-14:
		Plen 1: Green Biotech I	Systems Biology Photosyn- thesis	Green Biotech II Plant- microbe I	Space Bio/atmos- phere	Bioenergy
						Bio/atmos- phere
						Phytohor- mone
10:30	Break	Break	Break	Break	Break	
11:00		Plen 2:	Plen 4:	Plen 7:	Par 8-11:	Closing & Awards
		Climate Change	Transport	Bioenergy	Evo-Devo	
		Minerals I	Metals I	Evo-Devo	Gene Regulation	
					Plant- microbe	
					C4 Photo- synthesis	
12:30		Lunch	Lunch	Lunch	Lunch	
		Posters and exhibition	Posters and exhibition	Posters and exhibition	Posters and exhibition	
14:00	Registra- tion	Par 1-3:	Par 4-7: Sys Bio	Parallel: Excursions, FESPB GA EPSO GM	Plen 9:	
14:30		Green Biotech	Photosyn- thesis		Plant- microbe Phytohor- mone	
		Climate Change	Transport			
		Minerals	Metals			
16:00		Break	Break		Break	
16:30	Science Policy: Germany, EU Com- mission,	Plen 5: Gene Regulation Minerals II		Science & Society: Plant Science & Food Security		
18:00	Get Together				Eur Parlia- ment,	
18:30		Academia	Poster Session	Poster Session		
19:00		Break, walk to Freiburg city	Wine & Cheese	Wine & Cheese		
19:30						
20:00		Reception		Conf. Dinner		
20:30		Jazz Event				

Online Registration

Online registration is now open on
www.plant-biology-congress2012.de

For further questions please contact:
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Conference Fee

The conference fees below are valid for the complete conference starting July 29, 2012 through August 3, 2012 and include the following:

- Full access to all plenary and parallel sessions including the Satellite Meeting "Plant Biology in Space"
- Conference documentation incl. abstract book (printed edition or memory stick available)
- Welcome Get-Together (July 29, 2012)
- Coffee breaks & light lunches Monday through Thursday, coffee break on Friday
- City Reception at the Freiburg Theatre on Monday, July 30

ISLSWG members are free to register either for the complete conference or for the Satellite Meeting "Plant Biology in Space" only, August 1 - 3, 2012. Conference fee for the Satellite Meeting only is 285 Euro.

Early registration fees - valid until April 30, 2012

Category	Academia	Industry	Student
EPSO / FESPB member	425 Euro	545 Euro	270 Euro
ISLSWG member	495 Euro	595 Euro	320 Euro
Non-member	495 Euro	595 Euro	320 Euro

Late registration fees - valid as of May 1, 2012

Category	Academia	Industry	Student
EPSO / FESPB member	525 Euro	695 Euro	320 Euro
ISLSWG member	595 Euro	745 Euro	370 Euro
Non-member	595 Euro	745 Euro	370 Euro

Conference Organizer

University of Freiburg
Professor Dr. Heinz Rennenberg
Professor Dr. Ralf Reski

in cooperation with
kongress & kommunikation gGmbH



Accommodation

We have blocked hotel contingents in chosen hotels in and around the city of Freiburg exclusively for the participants of the Plant Biology Congress 2012.

As Freiburg is very popular, especially in the Summer, we recommend that you arrange your accommodation as early as possible.

In order to accommodate you together with the other participants, please reserve your room by no later than four weeks before arrival.

Please find all information as well as the online-booking engine on our website:
www.plant-biology-congress2012.de/accommodation.html

