

New Frontiers in Plant Biology Workshop Program

Thursday January 31th

Opening and Welcome

9:30-10:00 **Fernando Garcia-Arenal**, Director, Center for Plant Biotechnology and Genomics (CBGP)

Current advances in plant signal transduction

10:00-10:50 **Jian-Kang Zhu**, Purdue University, West Lafayette, IN, USA

Mechanisms of osmotic stress and ABA signaling in plants

10:50-11:40 **Paloma Mas**, Center for Research in Agricultural Genomics (CRAG), Barcelona, Spain

Signalling networks and regulatory mechanisms at the core of the Arabidopsis circadian oscillator

11:40-12:10 Coffee break

12:10-13:00 **Martin Parniske**, University of Munich (LMU), Munich, Germany

Signal transduction in plant root endosymbiosis

13:00-13:50 **Javier Paz Ares**, National Centre for Biotechnology (CNB), Madrid, Spain

Transcriptional control of Pi starvation responses

13:50-15:30 Lunch

Genetics, genomics and natural variation

15:30-16:20 **Tom Mitchell-Olds**, Duke University, Durham, NC, USA

A gain-of-function polymorphism controlling complex traits and fitness in nature

16:20-17:10 **Cris Kuhlemeier**, Institute of Plant Sciences, University of Bern, Bern, Switzerland

The genetics of plant-pollinator interactions

17:10-18:00 **Ralph Bock**, Max Planck Institute of Molecular Plant Physiology, Potsdam-Golm, Germany

Genes gone wild: experimental genome evolution in plants

Friday February 1st

Crop 'omics' and biotechnology

10:00-10:50 **Lothar Willmitzer**, Max Planck Institute of Molecular Plant Physiology, Potsdam-Golm, Germany

Metabolomics - its application in plant breeding, diagnostics and integrative systems analysis.

10:50-11:40 **Salomé Prat**, National Centre for Biotechnology (CNB), Madrid, Spain

FT control of potato storage organ formation: new opportunities to expand the area of cultivation of this important crop.

11:40-12:10 Coffee break

12:10-13:00 **Paul Christou**, Catalan Institute for Research and Advanced Studies (ICREA), Lleida University, Lérida, Spain

Metabolic engineering for nutritional improvement: Leaving the one gene-one pathway-one technology approach behind

13:00-13:50 **Jerry Tuskan**, Oak Ridge National Laboratory, Oak Ridge, TN, USA

Leveraging population-level resequencing data to infer protein function in Populus.

13:50-15:30 Lunch

Emerging Issues in Plant Biology

15:30-16:20 **Mark Wilkinson**, Centre for Plant Biotechnology and Genomics (CBGP) Madrid, Spain

Along the path to in silico science

16:20-17:10 **Marianne Manchester**, Skaggs School of Pharmacy and Pharmaceutical Sciences UC San Diego, La Jolla, CA, USA

Vascular imaging and tumor targeting using viral nanoparticles: How plant viruses shine.

17:10-18:00 **Paul Schulze-Lefert**, Max Planck Institute for Plant Breeding Research, Cologne, Germany

Structure, functions and evolution of the root bacterial microbiome.