

Preliminary Program

30. Conference Molecular Biology of Plants

Tuesday, 21. February 2017

Opening Lecture

45 min	Danny Ducat	Michigan (US)	<i>tba</i>
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Session 1: Signal Transduction

Chair: Ute Höcker

15 min	Aurélien Boisson-Dernier	Köln	<i>CrRLK1Ls: at the tip of growth and cell wall integrity</i>
15 min	Xuna Wu	Hohenheim	<i>SUCROSE-INDUCED RECEPTOR KINASE 1 interacts with a truncated receptor kinase SAK1 to regulate root growth and cellular calcium</i>
15 min	Michaela Dümmer	Marburg	<i>Two calcium dependent proteins involved in trans-Golgi traffic affect gravitropism antagonistically in Arabidopsis thaliana</i>
15 min	Marco Trujillo	Halle	<i>Exocyst subunit Exo70B2 function in distinct cellular pathways is controlled by phosphorylation</i>
15 min	Armin Töller	Göttingen	<i>Analysis of the negative effect of salicylic acid on the activation of the jasmonic acid/ethylene defense pathway in Arabidopsis thaliana</i>

Session 2: Biochemistry

Chair: Ralf Mendel

30 min	Oliver Ebenhöh	Düsseldorf	<i>Mathematical models of photosynthetic carbon fixation</i>
15 min	Lennart Wirthmüller	Berlin	<i>PARP and pseudo-PARP function in plant stress signaling</i>
15 min	Nico Dissmeyer	Halle	<i>The N-end rule pathway - from phenotypes to applications</i>
10 min	Sascha Gille	Bayer	<i>Grants4Targets - A new and innovative way to receive industrial funding for research projects with a focus on crop protection</i>

Wednesday, 22. February 2017

Session 3: Organelles & Membrane Biology

Chair: Peter Jahns

20 min	Stefanie Müller	Bonn	<i>Orchestrating the glutathione-linked redox-potential in plastids</i>
20 min	Serena Schwenkert	München	<i>Protein phosphorylation in organellar protein import and biogenesis</i>
20 min	Christopher Grefen	Tübingen	<i>Genetic Analysis of GET Pathway Components in Arabidopsis thaliana</i>
15 min	Petra Dietrich	Erlangen	<i>Multiple cyclic nucleotide gated channels regulate root hair growth</i>
15 min	Christina Kühn	Berlin	<i>The membrane steroid binding protein MSBP1 affects brassinosteroid signaling and mycorrhization efficiency in tobacco plants</i>

Session 4: Molecular Physiology

Chair: Dietmar Funck

15 min	Andreas Hiltbrunner	Freiburg	<i>PCH1 and PCHL control temperature and light signaling through regulation of phytochrome B dark reversion</i>
15 min	Shanshan Wang	Heidelberg	<i>The redox regulation of glutathione and cysteine biosynthesis in Arabidopsis thaliana</i>
15 min	Lisa Ohler	Kaiserslautern	<i>Dual function nucleoside kinases drive pyrimidine salvage in Arabidopsis</i>
15 min	Mathias Brands	Bonn	<i>The acyl-ACP thioesterase FatC of Lotus japonicus is required for arbuscular mycorrhizal symbiosis</i>
15 min	Ulrich Hammes	Regensburg	<i>Amino acid cycling and phloem unloading are required for meristem maintenance and pathogen success</i>
15 min	Mariana Mondragon Palomino	Regensburg	<i>Similarities between reproductive and immune processes in the pistil of Arabidopsis species</i>

Poster Session I

Session 5: Hormones & Development

Chair: Margret Sauter

15 min	Daniela Pezzetta	Berlin	<i>The cytokinin status influences phytochrome-dependent seed germination in Arabidopsis thaliana</i>
15 min	Marcel Quint	Halle	<i>The underrated role of brassinosteroids in thermomorphogenesis signaling</i>
15 min	Konrad Dreizler	Hohenheim	<i>Maturation of the wound hormone systemin and identification of prosystemin processing enzymes</i>
15 min	Ralf Müller-Xing	Harbin (China)	<i>Enhanced serration of Polycomb deficient leaves, correlating with CUC2 mis-expression and loss of H3K27me3 at the CUC2 locus, depends on CUC2 function in Arabidopsis thaliana</i>
15 min	Rebecca Drisch	Düsseldorf	<i>Transcription factor complexes regulate root stem cell fate in Arabidopsis</i>
15 min	Laura Ragni	Tübingen	<i>Periderm development: a tale of growth and programmed cell death</i>

Session 6: RNA Biology & Gene Expression

Chair: Christian Schmitz-Linneweber

30 min	Sascha Laubinger	Oldenburg	<i>The functions of introns and splicing in plant stress responses</i>
15 min	Katja Meyer	Bielefeld	<i>Genome-wide analysis of in vivo RNA-protein interactions</i>
15 min	Simon Klesen	Tübingen	<i>miRNA mobility</i>
7 min	Carolin Delker	Halle- Wittenberg	<i>German Controlled environment User Group (gCEUG) - an initiative to share experience, knowledge and resources on plant growth in controlled environments</i>
7 min	Carsten Richter	Convion	<i>Importance of growth chamber conditions for uniform plant growth</i>

Thursday, 23. February 2017

Session 7: Cell Biology & Evolution

Chair: Karin Schumacher

15 min	Jana Christin Askani	Heidelberg	<i>The role of membrane tethering complexes in vacuole development in Arabidopsis thaliana</i>
15 min	Simone Frühholz	Tübingen	<i>Nanobody triggered lockdown of recycled vacuolar sorting receptors identifies the cis-Golgi as target of the recycling route</i>
15 min	Sabine Müller	Tübingen	<i>Molecular Mechanisms contributing to division plane selection and maintenance in Arabidopsis</i>
15 min	Henrik Buschmann	Osnabrück	<i>The evolution of cell division: from Streptophyte algae to land plants</i>
15 min	Stefan Rensing	Marburg	<i>Extraordinary moss genome structure and evolution uncovered by the Physcomitrella chromosome-scale assembly</i>
15 min	Ralf Reski	Freiburg	<i>Cuticle, sporophyte, stomata: three plant innovations that shaped our planet</i>

Session 8: Abiotic Stress

Chair: Jörg Kudla

15 min	Alexandra Wormit	Aachen	<i>Trehalose-6-phosphate metabolism is affected by cellulose biosynthesis inhibition</i>
15 min	Lars Voll	Erlangen	<i>Metabolite profiling of barley flag leaves in drought stress reveals metabolic QTLs for metabolites associated with antioxidant defense and identifies alleles of the corresponding pathway genes</i>
15 min	Anton Schäffner	München	<i>Transcriptome-metabolome co-analysis reveals temperature- and air humidity-related components in drought-heat scenarios and putative novel players in abiotic stress responses</i>
15 min	Leonie Steinhorst	Münster	<i>A Ca²⁺ sensor switch for tolerance to elevated salt stress in Arabidopsis</i>
15 min	Marcus Heisters	Halle	<i>LPR1 - A ferroxidase involved in the signal transduction during the local phosphate starvation response in A. thaliana</i>
15 min	Susanne Berger	Würzburg	<i>Lipoxygenase1 is responsible for enzymatic lipid oxidation during seed ageing in Arabidopsis</i>

Poster Session II

Session 9: Biotic Interactions

Chair: Bettina Hause

15 min	Suayib Üstün	Uppsala (Sweden)	<i>How plant pathogenic bacteria co-opt proteolytic degradation pathways</i>
15 min	Irina Jansen	Aachen	<i>Phosphoproteomics discloses novel immune priming components in Arabidopsis</i>
15 min	Norman Adlung	Halle	<i>Non-host resistance induced by the Xanthomonas effector XopQ is widespread within the genus Nicotiana and functionally depends on EDS1</i>
15 min	Debabrata Laha	Tübingen	<i>Membrane-derived signaling molecules: the role of inositol pyrophosphates in hormone perception</i>

Reinhold-von-Sengbusch Lecture

60 min	Manajit Hayer-Hartl	München	<i>Chaperone machineries in RuBisCO biogenesis and metabolic repair</i>
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Friday, 24. February 2017

Session 10: Technical Advances & Biotechnology

Chair: Andrea Bräutigam

15 min	Jana Ordon	Halle	<i>Generation of chromosomal deletions using Cas9-based nucleases</i>
15 min	Mary-Ann Blätke	Gatersleben	<i>Flux balance analysis of plant metabolism</i>
15 min	Marc Nowaczyk	Bochum	<i>Localization of auxiliary proteins on Photosystem II by Surface Plasmon Resonance Spectroscopy and chemical cross-linking in combination with mass spectrometry</i>
15 min	Eva Decker	Freiburg	<i>Moss-produced, glyco-optimized human factor H for therapeutic applications in complement disorders</i>

Reinhold-von-Sengbusch Poster and Talk Awards

Farewell Lecture

45 min	Jutta Ludwig-Müller	Dresden	<i>Hiding in its host - how the clubroot pathogen Plasmodiophora brassicae alters host hormone homeostasis and defense</i>
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