

Preliminary program 31st Conference Molecular Biology of Plants 2018, 20.02.-23.02.2018 in Dabringhausen

Tuesday, 20. February 2018

16:00-16:10 10 min Dorothee Staiger Opening and Welcome address

Chair Sascha Laubinger

16:10-17:00 50 min Paula Duque (Oeiras, Portugal) Opening Lecture: "Post-transcriptional control of ABA-mediated stress responses"

Time	Session Signal transduction /Abiotic stress	Name	Title
17:00-17:15	15 min	Nils Stührwohldt (Hohenheim)	Subcellular regulation of gravitropic responses by peptide hormones after activation by subtilases
17:15-17:30	15 min	Oliver Artz • (Köln)	Evolution of Light Signaling: The COP1/SPA complex in <i>Physcomitrella patens</i>
17:30-17:45	15 min	Anja Hemschemeier (Bochum)	An NO-sensitive guanylate cyclase is required for the proper operation of the photosynthetic apparatus in <i>Chlamydomonas</i>
17:45-18:00	15 min	Qiuyan Dong • (Münster)	Convergence of ABA and calcium signaling: Ca ²⁺ -dependent phosphorylation of ABA transcription factors in abiotic stress response
18:00-18:15	15 min	Pavlina Miklankova • (Heidelberg)	Molecular identification of HYPK – a new player in the imprinting of the proteome by acetylation and the drought stress response
18:15-19:25	Dinner		

Chair Ralf Mendel

Time	Session Molecular Physiology	Name	Title
19:30-19:45	15 min	Nico Dissmeyer (Halle)	Protein homeostasis in plants - via specific recognition at the amino-terminus?
19:45-20:00	15 min	Martin Groth (Los Angeles, USA)	Interaction of folate metabolism, redox homeostasis, and DNA methylation in <i>Arabidopsis</i>
20:00-20:15	15 min	Stephan Krüger (Köln)	Serine biosynthesis controls nitrogen and sulphur assimilation in plants
20:15-20:30	15 min	Benjamin Neuhäuser (Hohenheim)	How plants combine abiotic stress and hunger
20:30-20:40	10 min	Rhea Stoppel (Bayer AG)	Grants4Targets - A new and innovative way to receive industrial funding for research projects with a focus on crop protection

Wednesday, 21. February 2018

from 07:00 Breakfast

Chair Jutta Ludwig-Müller

Time	Session Biotic Interactions	Name	Title
08:30-08:45	15 min	Markus Albert (Tübingen)	Interaction of Plant Parasites with Susceptible and Resistant Host Plants
08:45-09:00	15 min	Vera Göhre (Düsseldorf)	Adapt the weapon: Smut fungal effectors enable symptom-free colonization of Brassicaceae
09:00-09:15	15 min	Michael Hartmann (Düsseldorf)	Lysine catabolism: a core element of plant systemic acquired resistance
09:15-09:30	15 min	Hirofumi Nakagami (Köln)	Establishment of The Plant-Microbe Interaction Research in Marchantia polymorpha
09:30-09:45	15 min	Thomas Spallek (Yokohama, Japan)	Interspecies Signaling between Parasitic Plants and their Hosts
09:45-10:00	15 min	Martin Stegmann (München)	Understanding the mechanisms of RALF perception by the FERONIA receptor kinase during innate immunity
10:00-10:30	Coffee break		

Chair Karin Schumacher

Time	Session Biotic Interactions/ Hormones/ Cell Biology	Name	Title
10:30-10:45	15 min	Antonella Succurro (Köln)	Metabolic modeling of root-associated bacterial communities
10:45-11:00	15 min	Stephanie Werner (Halle)	Uncovering the function of LysM effector proteins in the formation of ectomycorrhizal symbiosis
11:00-11:15	15 min	Debora Gasperini (Halle)	Interplay between plant cell walls and jasmonate production
11:15-11:30	15 min	Anna Klinger • (Frankfurt, Main)	Targeting of beta-barrel proteins in plant cells
11:30-11:45	15 min	Jan Knop • (Hamburg)	Function and structure of a guarded immune signalling ubiquitin ligase
11:45-12:00	15 min	Arun Sampathkumar (Potsdam)	Mechano-chemical basis of cell and tissue level morphogenesis
12:00-13:45	Lunch		
14:00-16:30	Poster session I & coffee		14:00-15:15 Posters odd-numbered, 15:15-16:30 Posters even-numbered

Chair Christian Schmitz-Linneweber

Time	Session Organelles	Name	Title
16:30-16:45	15 min	Annika Brünje • (Münster)	Non-histone lysine acetylation in spotlight: Chloroplastic lysine acetyltransferases of Arabidopsis and their relevance for regulation of photosynthesis
16:45-17:00	15 min	Marion Eisenhut (Düsseldorf)	The role of MANGANESE EXCHANGER1 in plastid manganese homeostasis
17:00-17:15	15 min	Franziska Kuhnert • (Düsseldorf)	Rapid isolation of plant mitochondria from Arabidopsis thaliana for metabolite analyses and proteomics
17:15-17:30	15 min	Felix Willmund (Kaiserslautern)	Ribosome profiling reveals common principles and differences of chloroplast translation between a green alga and plants
17:30-17:45	15 min	Hans-Henning Kunz (Pullman, USA)	Ion flux across chloroplast membranes and its significance for plant photosynthesis
17:45-18:00	15 min	Jens Neunzig (Saarbrücken)	Structure and function of plastid fatty acid transporters
18:00-19:25	Dinner		

Chair Klaus Harter

Time	Session Organelles/ Development	Name	Title
19:30-19:45	15 min	Martin Bayer (Tübingen)	A Brassicaceae-specific gene duplication event links fertilization with the early embryonic patterning process in Arabidopsis.
19:45-20:00	15 min	Stephan Greiner (Potsdam)	Chloroplast factors and signaling determining leaf shape
20:00-20:15	15 min	Gwendolyn Kirschner (Düsseldorf)	Reporter lines for auxin and cytokinin in barley meristems
20:15-20:30	15 min	René Richter (Köln)	TARGET OF FLC AND SVP1, a B3-type transcription factor, acts on the periphery of the meristem in response to different flowering pathways to repress transcription of the floral homeotic gene SEPALLATA3
20:30-20:45	15 min	Anja Schmidt (Heidelberg)	New insights into the roles of RNA helicases for plant sexual and apomictic reproduction and aspects of their evolution
20:45-20:55	10 min	Carsten Richter (Conviron GmbH)	Importance of growth chamber conditions for uniform plant growth

Thursday, 22. February 2018

from 07:00 Breakfast

Chair Stefan Hoth

Time	Session Gene Expression/Membrane Biology	Name	Title
08:30-09:00	30 min	Sebastian Marquardt (Kopenhagen)	Gene Repression Through the Act of Transcription
09:00-09:15	15 min	Martin Balcerowicz (Cambridge)	Light and temperature interdependently control the "dawn burst" in gene expression
09:15-09:30	15 min	Noe Fernandez-Pozo (Marburg)	A unified expression atlas web tool for the plant model <i>Physcomitrella patens</i>
09:30-09:45	15 min	Lars Dietzel (Frankfurt, Main)	Abiotic stress signals in photosynthetic acclimation responses: from gene expression to molecular function
09:45-10:00	15 min	Reimo Zoschke (Potsdam)	The comprehensive analysis of chloroplast gene expression during cold acclimation shows extensive translational regulation and reveals the function of a non-essential cytochrome b6f subunit
10:00-10:30	Coffee break		

Chair Alexis Maizel

Time	Session RNA Biology	Name	Title
10:30-10:45	15 min	Hannes Ruwe (Berlin)	Clusters of small organellar RNAs mark binding sites of RNA-binding proteins in mitochondria and chloroplasts in green plants
10:45-11:00	15 min	Theresa Wießner • (Tübingen)	Regulation of Alternative Splicing in Early Photomorphogenesis
11:00-11:15	15 min	Andrea Bleckmann (Regensburg)	WOX mRNAs accumulate into specific mRNPs during embryogenesis and stem cell development
11:15-11:30	15 min	Anchilie Mangilet • (Oldenburg)	Functions of U1snRNP in Post-Transcriptional Regulation of Gene Expression
11:30-11:45	15 min	Mareike Schallenberg-Rüdinger (Bonn)	The plant C-U RNA editing machinery: Swapping RNA binding PPR proteins between <i>Arabidopsis thaliana</i> and <i>Physcomitrella patens</i>
11:45-12:00	15 min	Johannes Gantner • (Halle-Wittenberg)	Sharing resources for plant synthetic biology: An extended set of modular plant parts for hierarchical DNA assembly
12:00-13:45	Lunch		
14:00-16:45	Poster session II & coffee		all posters

Chair Ivo Feussner

Time	Session Biochemistry	Name	Title
16:45-17:00	15 min	Till Ischebeck (Göttingen)	Investigation of a family of lipid droplet-bound triacylglycerol lipases
17:00-17:15	15 min	Veronica Maurino (Düsseldorf)	Molecular evolution of C4-NADP-MALIC ENZYME in grasses: identification of amino acid residues involved in C4 optimization through differential conservation and crystallographic analysis
17:15-17:30	15 min	Isabel ML Saur (Köln)	Identification of unrelated powdery mildew avirulence effectors and their surveillance by the allelic barley Mildew Locus A immune receptor.
17:30-17:45	15 min	Markus Teige (Wien)	Out of control: Chloroplast Ca ²⁺ -binding proteins regulate plastid development and signalling
18:00-19:15	75 min	Caixia Gao (Peking, China)	Reinhold-von-Sengbusch Lecture: " Genome editing with programmable nucleases in crop plants"
19:15 from 21:00	Conference Dinner Party		

Friday, 23. February 2018

from 07:30 Breakfast

Chair Andreas Meyer

Time	Session Technical advances/ miscellaneous	Name	Title
09:00-09:15	15 min	Mary-Ann Blätke (Gatersleben)	In silico engineering of C4 metabolism based on a generic model for C3 metabolism
09:15-09:30	15 min	Adelaide Raguin (Düsseldorf)	Design Starch: Stochastic modeling of starch granule biogenesis
09:30-09:45	15 min	Wolfgang Hoehenwarter (Halle)	Deep proteomics reveals genome-wide protein expression dynamics in Arabidopsis immunity and development
09:45-10:00	15 min	Holger Breuninger (Tübingen)	Diversification of a gene regulatory network into an antagonistic feedback loop during the evolution of land plants
10:00-10:15	15 min	Ingo Schubert (Gatersleben)	Linkage of genome size and karyotype evolution via DNA double-strand break repair
10:15-10:45		Coffee break	
10:45-11:00		Reinhold-von-Sengbusch Poster and Talk Awards	
11:00-11:50	50 min	Andreas Weber	Farewell Lecture
11:50-12:00	10 min	Stefan Rensing	Closing remarks and Farewell
from 12:00	Lunch and Departure		