

MON

MARCH 4th

16:00 - 16:10 Opening and welcome address
Ute Höcker (*University of Cologne*)

Session 1 **Molecular physiology / organelles**
Chair **Tatjana Hildebrandt**

16:10 - 16:40 Lost in translation? Chloroplasts can handle slang!
Hans-Henning Kunz (*LMU Munich*)

16:40 - 16:55 ABCG7 is a chloroplast outer envelope protein involved in cold-induced cell wall and membrane lipid remodeling
Katharina Ebel (*RPTU Kaiserslautern*) ●

16:55 - 17:10 Granules in the chloroplast - Phase separation in plant organelle RNA processing and translation
Xiaoheng Chen (*HU Berlin*) ●

17:10 - 17:25 A light- and CO₂-dependent mechanism that dynamically controls DNA methylation through folate-mediated one-carbon metabolism
Martin Groth (*Helmholtz Munich*) ●

17:25 - 17:40 Plant cell wall charge and its role in mineral nutrient acquisition
Elke Barbez (*University of Freiburg*) ●

17:40 - 17:55 Understanding UDP-arabinofuranose transport in *Arabidopsis thaliana*
Alban Mariette (*University of Bochum*)

18:15 - 19:25 Dinner

19:30 **Poster Session 1**
Poster presentations (odd-numbered) & beverages

TUE

MARCH 5th

7:00 - 8:20 Breakfast

Session 2
Chair

Signal transduction / gene regulation
Klaus Harter

8:30 - 8:45 Epigenetics protects plant fertility
Hua Jiang (*IPK Gatersleben*) ●

8:45 - 9:00 Heat stress memory in *Cyanidioschyzon merolae*
Elise Kerckhofs (*FU Berlin*) ●

9:00 - 9:15 The proteasome autoregulatory feedback loop coordinates subcellular proteostasis
Gautier Langin (*University of Bochum*) ●

9:15 - 9:30 Regulation of crassulacean acid metabolism
Katharina Schiller (*University of Bielefeld*) ●

9:30 – 10:15 **Invited Keynote Lecture**
Epigenetic regulation of plant reproduction
Claudia Köhler (*MPI Golm*)

10:15 - 10:45 Coffee break

Session 3
Chair

Careers in academia and industry
Ute Höcker

10:45 - 11:00 DFG funding for early career researchers
Catherine Kistner, Johanna Spandl (*DFG*)

11:00- 11:20 Surviving the apoplast: the significance of type II secretion for *Xanthomonas* infecting tomato
Jessica Erickson, Walter-Benjamin scholar (*IPB Halle*) ●

- 11:20- 11:40 Context-dependent activity of enhancer-blocking elements in plants
Tobias Jores, Emmy-Noether scholar (*University of Düsseldorf*) ●
- 11:40- 12:00 Optimization and exploration of Safeners: An example of interdisciplinary research in industry
Jan Dittgen (*Bayer*)
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12:00 - 13:30 Lunch

Session 4
Chair

Development
Martin Bayer

- 13:30 - 13:45 Photosynthetic sucrose drives the lateral root clock in *Arabidopsis* seedlings
Stefan Kircher (*University of Freiburg*)
- 13:45 - 14:00 Arrested development: How do plants control fate transition timing?
Margot Smit (*University of Tübingen*) ●
- 14:00 - 14:15 Unravelling the molecular basis for functional specialization of Medicago *SCAR/WAVE* genes with surgical precision
Sabine Brumm (*Sainsbury Laboratory, Cambridge*)
- 14:15 - 14:30 Water stress enhances suberization and lignification of apoplastic barriers in barley seminal roots: analysis of chemical, transcriptomic and physiological responses
Kiran Suresh (*University of Bonn*) ●
- 14:30 - 14:45 Uncovering principles of xylem wall patterning in *Arabidopsis thaliana*
Annika Saß (*University of Potsdam*) ●
- 14:45 - 15:00 MYB68 controls passage cell establishment through timing of xylem pole associated endodermal suberization
Leonie Kraska (*MPI Cologne*) ●

15:00 - 15:45 Group picture, Coffee break

Session 5 **Genomics / transcriptomics / RNA biology**
Chair Arthur Korte

15:45 - 16:15 Gene-regulatory networks controlling early flower development

Kerstin Kaufmann (*HU Berlin*)

16:15 - 16:30 Network inference reveals barley transcription factors and targets in Fusarium head blight

Christina Steidele (*TU Munich*) ●

16:30 – 16:45 Single-cell sequencing of C3-C4 intermediate Brassicaceae species

Sebastian Triesch (*University of Düsseldorf*) ●

16:45 - 17:00 When posttranslational modifications and splicing shake hands to fine-tune stress responses

Julieta Mateos (*University of Bielefeld*) ●

17:00 - 17:15 Conquering new grounds – plant organellar C-to-U RNA editing factors are functional in the plant cytosol

Elena Lesch (*University of Bonn*) ●

18:00 - 19:30 Dinner

19:30

Poster Session 2

Poster presentations (even-numbered) & beverages

Locations Room Euskirchen and Aula

WED

MARCH 6th

7:00 - 8:20

Breakfast

Session 6

Chair

Abiotic interactions

Christin Naumann

- 8:30 - 8:45 Remember the rain: Unravelling how plants encode flooding stress memory
Sjon Hartman (*University of Freiburg*) ●
- 8:45 - 9:00 Regulation of ROS homeostasis by HRE2 in lateral root growth of *Arabidopsis thaliana* during the initial response to low oxygen stress
Emese Eysholdt-Derzso (*University of Kiel*)
- 9:00 - 9:15 Regulation of PILS proteins by stress-responsive protein kinases
Seinab Noura (*University of Freiburg*) ●
- 9:15 - 9:30 Yield reduction in potato caused by heat and nitrogen fertilization is mitigated by overexpression of the tuberigen SP6A
Lisa Koch (*University of Erlangen-Nürnberg*) ●
- 9:30 - 9:45 The impact of cadmium on *Arabidopsis thaliana* roots: Unraveling the role of the transcription factor HY5
Ludwig Richtmann (*University of Bayreuth*) ●
- 9:45 – 10:00 Scicomm Award Presentation

10:00 - 10:30 Coffee break

Session 7

Chair

Evolution and evo/devo

Berit Ebert

- 10:30 - 11:00 Plant terrestrialization: the deep evolutionary roots of stress response networks
Jan de Vries (*University of Göttingen*)

- 11:00 - 11:15 Interplay between carbon concentrating mechanism and osmo-/ion-regulation in Charophytes: chance or obstacle for adaptation to terrestrial conditions?
Carolin Heise (*University of Rostock*) ●
- 11:15 - 11:30 Evolution of SERK-mediated specificity in plant development and immunity
Francisco Gordillo-Cantón (*University of Tübingen*) ●
- 11:30 - 11:45 Genetic insights into life-history trait variation in a novel panel of Africa-centered *Arabidopsis thaliana*
Yulia Yarkhunova (*MPI Cologne*)
- 11:45 - 12:00 Investigating plant cell wall biosynthesis in a simple genetic model system, *Marchantia polymorpha*
Hee Sung Kang (*University of Melbourne*) ●
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12:00 – 13:30 Lunch

Session 8

Chair

Biotic interactions

Martina Ried

- 13:30- 13:45 Regulation of the function of receptor-like kinases via proteolytic processing
Mariana Schuster (*IPB Halle*) ●
- 13:45 - 14:00 Modulation of immunity-related cysteine proteases by a bacterial root commensal of *Zea mays*
Daniel Moser (*University of Cologne*) ●
- 14:00 - 14:15 Nucleoporin-dependent expression of a methylesterase involved in plant immunity
Tiziana Guerra (*FU Berlin*)
- 14:15 - 14:30 A member of the STRUBBELIG-RECEPTOR FAMILY is targeted by a fungal virulence factor (effector) in barley
Isabel Saur (*University of Cologne*) ●

14:30 - 14:45 A root-specific NLR network confers resistance to plant parasitic nematodes

Daniel Lüdke (*Sainsbury Laboratory, Norwich*)

14:45 - 15:00 Endogenous FER-RALF signaling is involved in successful host colonization of powdery mildew on *Arabidopsis thaliana*

Henriette Leicher (*TU Munich*) ●

15:00 - 15:30 Coffee break, hand in red dot voting cards (●)

16:00 - 17:30 Indoor football
PhD students + Postdocs vs. PIs

18:00 - 18:45  Keynote

Reinhold-von-Sengbusch Lecture
Genetic control of shoot branching

Pilar Cubas (*CSIC Madrid*)

19:00 - 21:00 Conference Dinner

21:00 Party

THU **MARCH 7th**

7:30 - 8:50 Breakfast

Session 9 **Cell biology and technical advances**
Chair **Andreas Hiltbrunner**

9:00 - 9:15 Cell surface receptor kinase signaling ballet
Julien Gronnier (*University of Tübingen*) ●

- 9:15 - 9:30 Linking organelles by actin tracks to establish membrane contact sites
David Scheuring (*RPTU Kaiserslautern*) ●
- 9:30 - 9:45 Biochemical battlefield: unraveling plants' carbon warfare against pathogens
Pedro Barreto (*University of Münster*)
- 9:45 - 10:00 Optogenetic approach to study stem cell fate regulation via Ca²⁺ fluxes within the root of *Arabidopsis thaliana*
Rebecca Burkart (*University of Düsseldorf*)
- 10:00 - 10:15 High throughput monitoring of the glutathione redox potential on an illuminated plate reader reveals synchronous light-dependent oxidation in the stroma and the cytosol
Jose Ugalde (*University of Bonn*) ●
- 10:15 - 10:30 GTPases and ATPases: new alliance to understand nutrition
Sibaji Kumar Sanyal (*University of Düsseldorf*)
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- 10:30 - 11:00 Coffee break, hand in blue dot voting cards (●)
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- 11:00 - 11:20 ***Reinhold-von-Sengbusch Poster and Talk Awards***
Presented by the von Sengbusch family
Short presentation of the winning posters
- 11:20 - 12:10 ***Farewell Lecture***
A sulfur-dependent cofactor triple for life
Andreas Meyer (*University of Bonn*)
- 12:10 - 12:20 Closing remarks
Christopher Grefen (*University of Bochum*)
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- 12:20 Small lunch and departure