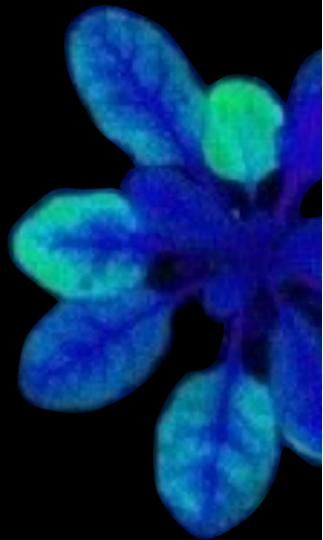
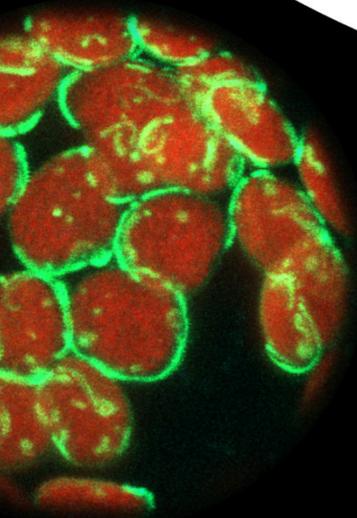


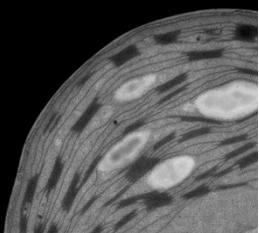


Molecular Biology of Plants

March 16-19 Sportschule Hennef



Hans-Henning Kunz | München
Christopher Grefen | Bochum
Andrea Bräutigam | Bielefeld



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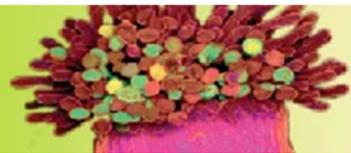
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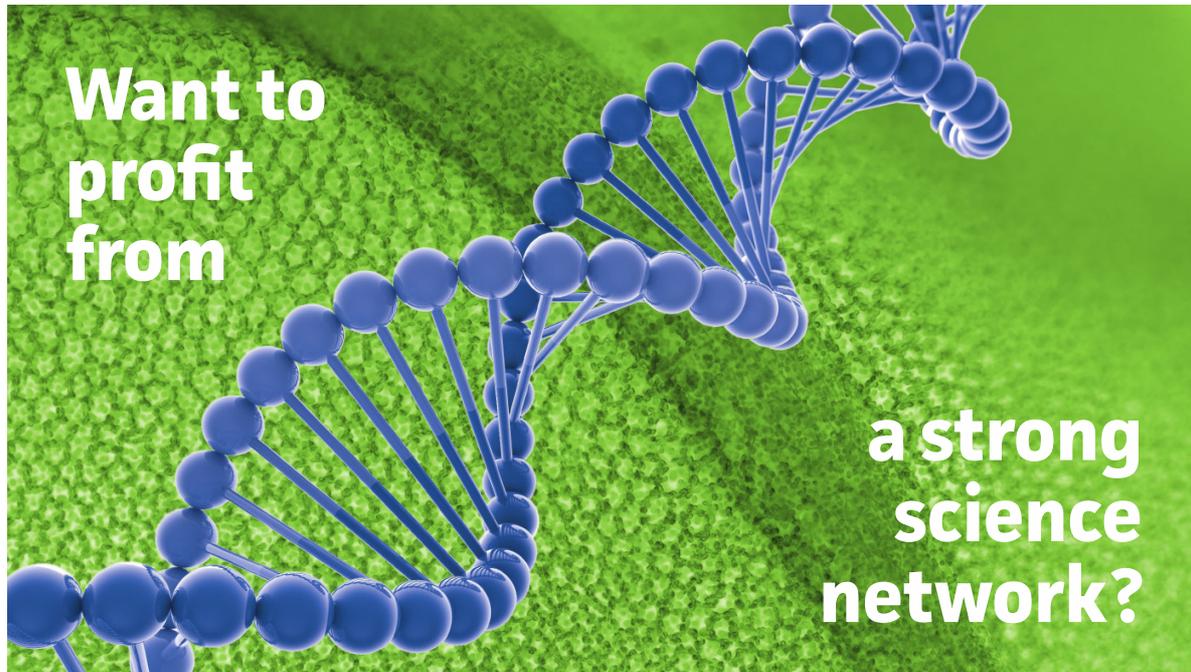


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Section
Plant Physiology &
Molecular Biology



Our Section

-  organizes an annual scientific meeting tailored to promote early career researchers
-  provides travel funds for early career researchers to visit meetings
-  distributes job offers via a mailing list
-  represents plant molecular biology in public debates
-  offers a network of plant physiologists and plant molecular biologists of different career stages
-  is the largest group within the German Society for Plant Sciences (DBG)
-  welcomes your participation, ideas and suggestions to showcase plant biology and support career development



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Venue map



Indoor soccer

- | | | | |
|-----------|---|-----------|--|
| 01 | Reception | 05 | Bettenhaus Rooms 102 - 412
Room Bonn
Room Sieg
Room Berg |
| 02 | Rooms 250 - 272
2 nd floor
Rooms 150 - 163
1 st floor
Room Mittelrhein
Room Hennef
Dining Rooms
Ground floor
Aula
Underground
Room Köln
Bistro | 06 | Haus Schleiden Rooms 602 - 621
Room Euskirchen |
| 03 | Rooms 502 - 514
2 nd floor
Room Aachen
1 st floor
Room Rhein-Erft
Ground floor
Room Heinsberg | 07 | Hall complex |
| | | 08 | Natural grass pitch |
| | | 09 | Small pitch |
| | | 10 | Indoor soccer pitch |
| | | 11 | Indoor pool |
| | | 12 | Outdoor pool |
| | | 13 | Beach - Volleyball |

Use of onsite sport facilities

On Wednesday afternoon, “The MBP Conference Cup”, a match rivaling PIs and PhD students/postdocs, will be held at the full-sized indoor soccer field on artificial turf (see map, #10).

A second gym for badminton and table tennis is also available (see map, #07). So, **don’t forget to pack your sports gear and sneakers!**

Internet access

Internet access will be available campus-wide. Login and access information will be provided onsite.

Competitions and Awards

Selection procedures

Reinhold-von-Sengbusch Talk Awards (3x) and Poster Awards (3x)

The *Reinhold-von-Sengbusch Awards* are kindly provided by the von Sengbusch family and the AKB-Stiftung. The awards support young researchers i.e., PhD students and first year postdocs, with €500 each.

A two-step selection procedure will be implemented: first, all conference attendees cast 3 votes for posters and 3 votes for talks. We will provide a link or QR codes to an online survey. In a second step, a small committee of PIs will select the winners from the six contributions that gained the most votes or break a tie if needed. All talks and posters that qualify for these competitions are indicated in the program with red dots (●). Also, the presented posters will be labeled with red dots (●). **Red dot votes need to be handed in by the end of the coffee break on Thursday morning.**

Agrisera Award

This competition is open to **all Postdoc talks**. Candidates are indicated in the program with green dots (●). The awardee will be selected via an online vote. Every participant has one vote. In the case of a draw, the organizers will take a final decision. The awardee can choose any catalog antibody/reagent from Agrisera. **Green dots votes need to be handed in at the end of the coffee break on Thursday morning.**

The Plant Journal Talk Award

The *Plant Journal Award* (Wiley) aims at supporting junior group leaders and credits the best oral presentation of a junior PI given during the meeting. The award comes with an invitation to submit a review on the research topic of the winner to *The Plant Journal*. The respective candidates are indicated in the program with blue dots (●). All conference attendees can cast 1 vote in this category. Links to the online survey will be provided. Selection will be made by based on the most votes. A small committee of PIs will or break a tie if needed. **Blue dot votes need to be handed in by the end of the coffee break on Thursday morning.**

MON

March 16th

16:00 - 16:10 Opening and welcome address
Hans-Henning Kunz, LMU Munich

Session 1

Development

Chair

Yvonne Stahl, Goethe-University Frankfurt am Main

16:10 - 16:25 Scaling the pattern: Maintenance of Meristem Organization
Despite Size Variation

Cecilia Lara Mondragón (*University of Tübingen*) ●

16:25 - 16:40 Dual Role of two MYB-transcription factors in Tomato Petal
Development and Fertility

Moritz Friesch (*IPB Halle*) ●

16:40 - 17:00 The lncRNA LINDA safeguards meristematic integrity after
stem cell loss

Josephine Herbst (*Ghent University*) ●

16:55 - 17:15 A CLE peptide with anti-aging properties: Dual functions of
CLE40 in the shoot apical meristem

Svenja Augustin (*HHU Düsseldorf*) ●

17:10 - 17:30 EARLY FLOWERING 3 (ELF3): a novel role in integrating
environmental stimuli with root stem cell niche maintenance

Ali Eljebbawi (*Goethe-University Frankfurt am Main*) ●

17:30 - 18:50 Dinner

Keynote

Lecture



Chair

Ute Armbruster, HHU Düsseldorf

19:00 - 20:00 Understanding and altering photoprotection to improve crop
productivity

Krishna Niyogi, UC Berkeley, CA, USA

20:00

Poster Session 1

Poster presentations (odd numbered) & beverages

TUE

March 17th

7:00 - 8:20 Breakfast

Session 2
Chair

Cell Biology
Till Ischebeck, Uni Münster

8:30 - 8:55 Molecular insight into cell wall integrity signaling in Arabidopsis
Kay Schneitz (TUM)

8:55 - 9:15 Identification of a new plant-specific component of the Autophagic Network
Christin Naumann (IPB Halle) ●

9:15 - 9:30 Dynamic cortical behavior of plant protoplasts reveals unexpected similarities between plant and animal cells
Johanna E. M. Dickmann (ENS de Lyon) ●

9:30 - 9:45 Physiological and Stress-Related Functions of Cytosolic Malate Dehydrogenase Isoforms in *Arabidopsis thaliana*
Vanessa Dombrowski (Christian-Albrechts-Universität zu Kiel) ●

9:45 - 10:00 ARK kinesin regulation by AGC1 protein kinases in gravitropic growth
Michaela Kafida (TUM) ●

10:00 - 10:30 Coffee break

Session 2
Chair

Cell Biology
Thilo Rühle, LMU München

10:30 - 10:45 The influence of ROP GTPases and Extended Synaptotagmins on protonemata of *Physcomitrium patens*
Maria Ntefidou (Friedrich-Alexander-University Erlangen) ●

- 10:45 - 11:00 Cell polarity establishment and its restriction during pollen germination
Jonas Matteo Böhm (*Rheinische Friedrich-Wilhelms-Universität Bonn*) ●
- 11:00 - 11:15 The Sufficient, the Necessary, and the Inhibitory - There's two kinds of motifs: those that autoinhibit, and those that activate
Sarah Koutnik-Abele (*TUM*) ●
- 11:15 - 11:45 Regulation of Lys63-linked Ubiquitin Chain Assembly by UBC35/UBC36 in Arabidopsis
Cansu Dilege (*James Hutton Institute, Dundee*) ●
-

11:45 - 13:15 Lunch

Session 3 **Abiotic interactions**
Chair Marion Eisenhut, Uni Bielefeld

- 13:15 - 13:30 Innovative Solutions for Agriculture from Industry
Dr. Ines Ochrombel (*Evonik Essen*)
- 13:30 - 13:50 Functional specialization of Gibberellin receptors in plant environmental response and adaptation
Putri Prasetyaningrum (*MLU Halle*) ●
- 13:50 - 14:05 Post-Translational Modifications and Their Role in Plant Acclimation to Light
Juergen Eirich (*University of Muenster*) ●
- 14:05 - 14:25 Endomembrane CHX-Type Mineral Nutrient Transporters and Abiotic Stress Tolerance
Stefanie Wege (*University of Bonn*) ●
- 14:25 - 14:40 Studying the functional significance of plastid Na⁺/H⁺ carrier AtNHD1 for proton motive force dynamics
Eduard Windenbach (*LMU Munich*) ●
- 14:40 - 14:55 Heterologous Lhcx can provide Non-Photochemical Quenching in the diatom *Phaeodactylum tricornutu*
Marie Alice Wünsch (*University Rostock*) ●

14:55 - 15:10 Protein interaction interfaces regulating iron acquisition and homeostasis in *Arabidopsis thaliana*
Dibin Baby (HHU Düsseldorf) ●

15:15 – 16:10 Coffee break & Group picture

Session 4 Tools & Resources

Chair Thomas Nägele, LMU Munich

16:15 - 16:30 Glycogen-deficiency response in the cyanobacterium *Synechocystis* sp. PCC 6803
Tim Schulze (Bielefeld University) ●

16:30 - 16:45 An interactive web tool to predict plant regulatory element activity
Sebastian Triesch (HHU Düsseldorf) ●

16:45 - 17:00 Specificity of transcriptional regulation in *Arabidopsis*
Sanja Zenker (Bielefeld University) ●

17:00 - 17:15 From Lawn Intruder to Synthetic Producer: Towards a Functional Bioengineering Chassi
Michael Burgis (Philipps University of Marburg) ●

17:15 - 17:30 From model plant to crop - Investigating AKT2-mediated potassium dynamics and its role in crop improvement
Michelle Fritzler (RPTU Kaiserslautern) ●

17:30 - 17:55 DataPLANT: Cultivating FAIR Plant Research Together
Timo Mühlhaus (RPTU Kaiserslautern)

18:00 - 19:30 Dinner

Poster Session 2

19:30 Poster presentations (even numbered) & beverages
Rooms Euskirchen and Aula

WED

March 18th

7:00 - 8:20 Breakfast

Session 5

Chair

Biotic interactions

Sascha Laubinger, MLU Halle

8:30 - 8:50

Structural and biochemical basis of activation and autoinhibition of an NLR immune receptor network

Mauricio Pablo Contreras (*University of Tübingen*) ●

8:50 - 9:10

Control of virus vertical transmission in plant stem cells and gametes

Marco Incarbone (*MPI of Molecular Plant Physiology*) ●

9:10 - 9:25

A multigenic QTL underlies natural variation in *Arabidopsis thaliana* root system architecture and transcriptional responses to microbiota-derived *Pseudomonas*

Charles Copeland (*MPI for Plant Breeding Research*) ●

9:25 - 9:40

“How not to die”: studying the workings of TIR-domain proteins in plant systemic resistance

Federica Locci (*MPI for Plant Breeding Research*) ●

9:40 - 9:55

Bacteria exploit plant P-bodies to attenuate host translation during infection

Manuel González-Fuente (*Ruhr-Universität Bochum*) ●

10:00 - 10:30 Coffee break

10:30 - 10:45

Elucidation of a perception mechanism for cell wall-derived oligogalacturonides in *Arabidopsis thaliana*

Jana Ordon (*University of Zurich*) ●

10:45 - 11:00

Regulation of Powdery Mildew Susceptibility by CrRLK1L-RALF modules

Sebastian Schade (*Ulm University*) ●

11:00 - 11:15 Unraveling the biosynthesis of ayapin - an antifungal coumarin of sunflowers

Jakob Weber Böhlen (*RWTH Aachen University*) ●

Session 6 Evolution

Chair

Kristina Kühn, *MLU Halle*

11:15 - 11:30 Evolutionarily conserved lateral inhibition governs cellular patterning in fossil and extant liverworts

Josep Mercadal (*MPI for Plant Breeding Research*) ●

11:30 - 11:45 Lineage and Genotype-Specific Variation of Developmental and Defense RLPs in Wild and Cultivated Tomato

Nandeesh Jalahalli Rangegowda (*Christian-Albrechts-Universität zu Kiel*) ●

11:45 - 12:00 Plant Terrestrialization: Phenolics in Stress Response in the Closest Algal Relatives of Land Plants

Cäcilia Felicitas Kunz (*Georg-August University Göttingen*) ●

12:00 - 13:30 Lunch

14:00 - 16:00 Indoor Soccer, Table Tennis, and Badminton
(PhD students + Postdocs) vs. (Junior + Senior PIs)

16:00 - 16:30 Coffee break

16:40 **SciComm Award Presentation**

Session 7 Across fields - Querbeet

Chair

Reimo Zoschke, *Potsdam*

17:00- 17:15 A new-to-nature chloroplastic photorespiratory bypass increases CO₂ assimilation and stimulates plant growth

Laia Segura Broncano (*HHU Düsseldorf*) ●

17:15 - 17:30 The role of ARGONAUTE10 in developmental plasticity

Liese Schnurbusch (*Eberhard Karls Universität Tübingen*) ●

17:30 - 17:45 Novel pigment with old regulators: Red plant pigments share regulators but not enzymes

Fernanda Daniela Giampaoli (*University of Cologne*) ●

17:45 – 18:00 At signaling crossroads: PLASTID ENVELOPE ION CHANNELS link Ca²⁺ and Jasmonic acid signaling in plant cells

Susanne Mühlbauer (*LMU Munich*) ●

Reinhold-von-Sengbusch Lecture

18:00 - 19:00 Start your engines - a trip through the plant endomembrane system

Karin Schumacher, **COS Heidelberg**

19:00 - 21:00 Conference dinner

21:00 Conference party

THU **March 19th**

7:00 - 8:20 Breakfast

Session 8

Chair

Organelles

Danja Schünemann, **RU Bochum**

8:30 - 8:50 PAF1 - an assembly factor guiding the formation of chloroplast ATP synthase in Arabidopsis and Chlamydomonas

Thilo Rühle (*LMU Munich*) ●

8:50 - 9:05 Phase-Separation of Plastid RNA Binding Proteins is Required for Chloroplast Development in the Cold

Julia Legen (*Humboldt University Berlin*) ●

9:05 - 9:20	Auto-fueling of single mitochondrial motility by a local ATP halo Jan Multhoff (<i>University of Münster</i>) ●
9:20 - 9:35	Eukaryote-specific assembly factor DIP1 supports early steps of Photosystem II assembly Juan Carlos Dávila Frantzen (<i>HHU Düsseldorf</i>) ●
9:35 - 9:50	Studies on a TOC-TIC-interacting DnaJ-like protein with crucial role in chloroplast biogenesis Xenia Safronov (<i>Ruhr-Universität Bochum</i>) ●
9:50 - 10:05	Make and Break: How Nucleotide Degradation Supports Chloroplast Biogenesis Lisa Fischer (<i>Leibniz University Hannover</i>) ●
10:05 - 10:20	Regulation of zeaxanthin epoxidases and its importance for photoprotection in plants and algae Chiara Giossi (<i>HHU Düsseldorf</i>) ●
10:20 - 10:35	Where is the mRNA? - Localization and dynamics of plant mitochondrial gene expression Michelle Marofke (<i>MLU Halle</i>) ●
10:35 - 11:00	Coffee break, Plant Journal (●) & Agrisera (●) award & Reinhold-von-Sengbusch award (●) voting
11:00 - 11:20	Reinhold-von-Sengbusch Poster and Talk Awards Short presentation of the winning posters
11:20 - 11:30	The Plant Journal & Agrisera Talk Awards
11:30 - 12:15	Farewell Lecture Insertion Pathways for Membrane Proteins in the Plant ER Christopher Grefen, RU Bochum
12:15 - 12:25	Closing remarks Andrea Bräutigam, Uni Bielefeld
12:30	Small lunch and departure

Session 1 – DEVELOPMENT (Aula)

1 • **Cryptochrome-Mediated Inactivation of the COP1/SPA Ubiquitin Ligase During Arabidopsis Light Signal Transduction**

Victoria Zimmer, Laura Trimborn, Ute Höcker (*Köln*)

2 • **Advancing Peanut (*Arachis hypogaea* L.) as a Model Organism to Unravel the Molecular Basis of Geocarpy**

Farnoush Farjam, Khushbu Kumari, Christopher Grefen (*Bochum*)

3 • **AGO10 – a novel player in shoot apical meristem homeostasis**

Marlene Handl, Nabila El Arbi, Ann-Kathrin Schürholz, Sebastian Wolf (*Tübingen*)

4 • **A single cell transcriptome atlas of the barley root apical meristem**

Anika Dolata, Edgar Demesa-Arevalo, Tianyu Lan, Jasper Staut, Rüdiger Simon, Maria von Korff, Klaas Vandepoele, Yvonne Stahl (*Frankfurt*)

5 **It Takes TOR to Tango: Shade-mediated hypocotyl elongation requires a functional auxin-TOR axis in Arabidopsis**

Sarah Coubier, Sebastian Hoernstein, Pitter Huesgen, Andreas Hiltbrunner (*Freiburg*)

6 **The role of the cell wall's physical parameters in cell-identity determination in the shoot apical meristem**

Katharina Gabor, Tasnim Zerine, Paola Ruiz-Duarte, Ann-Kathrin Schürholz, Theresa Schlamp, Yanfei Ma, Carlo Bevilacqua, Nabila El Arbi, Christian Wenzl, Andrej Miotk, Robert Prevede, Thomas Greb, Jan Lohmann, Sebastian Wolf (*Tübingen*)

Session 2 – CELL BIOLOGY (Aula)

7 **SISE, free LabView-based software for ion flux measurements**

Rob Roelfsema, Namrah Ahmad, Krishani Tennakoon (*Würzburg*)

8 **Getting there - differential targeting of the plant V-ATPase complex**

Upendo Lupanga, Rachel Röhrich, Katinka Bünger, Stefan Hilmer, Melanie Krebs, Karin Schumacher (*Heidelberg*)

9 **Processing Bodies as sites of ABA-induced post-transcriptional regulation**

Thorben Krüger, Suayb Üstün (*Bochum*)

10 • **The role of the NRT/PTR family transporter NPF5.3 in ABA homeostasis**

Dominik Uhlig, Robin Rasiah, Rainer Waadt (*Münster*)

11 • **Functional characterization of the Arabidopsis dynamin-related GTPases AtGBPL1 & 3**

Joline Blaß, Theresa Maria Reimann, Christina Müdsam, Christina Schachtler, Semra Ince, Heinrich Sticht, Christian Herrmann, Michael Stürzl, Pantelis Livanos, Benedikt Kost (*Erlangen*)

12 • *Vicia faba* guard cells prefer uptake of nitrate, rather than chloride, during stomatal opening

Namrah Ahmad, Rob Roelfsema, Krishiani Tennakoon (*Würzburg*)

13 • Investigating priming compounds & their potential protein interaction partners

Tina Miller, Gerold Beckers, Uwe Conrath (*Aachen*)

14 • Influence of Dicer-like-1 variants on microRNA biogenesis in plants - towards structural and functional insights

Lars Grosch, Cecile Rosalie Scholl, Sascha Laubinger, Clara Tabea Schoeder (*Leipzig*)

15 • Altered Ca²⁺ signature induces side branch formation via actin cytoskeleton modification in the moss *Physcomitrium patens*

Johanna Knab, Benedikt Kost (*Erlangen*)

16 • Functional characterization of the chaperone GET3a and its connection to a lethal overexpression phenotype

Aron Struß, Julia Petric, Christopher Grefen (*Bochum*)

17 • Decoding the molecular mechanism of glyoxalase I-like11 in photoprotection

Maximilian Klamke, Jonas M. Böhm, Yaroslav Zaplatnikov, Tobias Dieckmann, Charlotte Göhring, Veronica G. Maurino (*Bonn*)

18 • Mechanisms of Forgotten Plant Growth Regulators: Inhibition of PIN mediated Auxin Transport by Morphactins

Lukas Schulz, Inès Benhammouche, Sarah Koutnik-Abele, Bjørn Pedersen, Ulrich Hammes (*Würzburg*)

19 • Being in the right place – Peripheral membrane protein(s) during polar growth of tobacco pollen tubes

Carolin Fritz, Heinrich Sticht, Kara McHugh, Piers Hemsley, Sylwia Schulmeister, Alexander Kaier, Martin Potocky, Benedikt Kost (*Erlangen*)

20 The lncRNA LINDA safeguards meristematic integrity after stem cell loss

Josephine Herbst, Solveig Henriette Nagy, Ilse Vercauteren, Lieven De Veylder, Reinhard Kunze (*Ghent*)

21 The role of lysine acetylation in the regulation of photosynthesis in *Arabidopsis*

Annika Brünje, Minna Konert, Jürgen Eirich, Aiste Ivanauskaitė, Paulina Heinkow, Paula Mulo, Iris Finkemeier (*Münster*)

22 How is phosphorylation of Aux/IAs regulating the auxin response in the early embryo?

Kasper van Gelderen, Freddy Igiebor, Laeschkir Würtner, Ondrej Novak, Franziska Stamm, Merwe Cetiner, Janina Schmidt, Omar Heliel, Lauren Saunders, Isabella Graf (*Heidelberg*)

23 • Conserved motifs in the N-termini are essential for the function of AGC1 kinases

Ziyao Wang, Florian Boessl, Antonella di Pizio and Claus Schwechheim (*Freising*)

24 • The Diversification of the N-terminal Helix of Exo70 Paralogs in Plants and its Dual Recruitment Mechanism to the Exocyst

Alaa Allahham, Moritz Werres, Marco Trujillo (*Hamburg*)

25 Breaking the Rules: Are Holocentric Plants Rewiring Meiosis through Paralog Interdependence?

Marco Castellani, Stefan Steckenborn, Hernan Lopez, Andre Marques, Raphael Mercier (*Köln*)

26 • Regulation of clathrin-mediated endocytosis by PUB E3 ligases during plant immunity

Gali Estopare Araguirang, Giulia Furlan, Carla Brillada, Marco Trujillo (*Hamburg*)

27 Charge of the Plant Extracellular Matrix and Its Role in Calcium Homeostasis

Jędrzej Dobrogojski, Jędrzej Dobrogojski, Chenlu Liu, Matteo Grenzi, Lars Ott, Elke Barbez, Jürgen Kleine-Vehn (*Freiburg*)

28 • The Cell Wall as a Biophysical Gatekeeper of Iron Homeostasis in Plant Roots

Chenlu Liu, Jędrzej Dobrogojski, Paulina Ramirez Miranda, Dominic Wölki, Marco Marconi, Nicolas Ulbrich, Fiona Kang, Monika Kubalova, Berit Ebert, Matyas Fendrych, Krzysztof Wabnik, Elke Barbez (*Freiburg*)

29 • When tagging alters function: Failure of ion channel regulation impairs chloroplast biogenesis

Inês Nunes, Susanne Mühlbauer, Mayank Sharma, Alexander Lederer, Jonas Fechter, Geoffry Davis, Lorenz Holzner, Lidia Varga, Carsten Völkner, Hans-Henning Kunz (*Munich*)

30 Studying the functional significance of plastid Na⁺/H⁺ carrier AtNHD1 for proton motive force dynamics

Windenbach Eduard, Davis Geoffry, Baretto Pedro, Ebeling Josha, Nguyen Quang Huy, Brandt Benjamin, Bölter Bettina, Armbruster Ute, Matuszynska Anna, Schwarzländer Markus, Kunz Hans-Henning (*Munich*)

31 • Genome-wide Dynamics of Nucleotide Excision Repair and Photoreactivation in *Arabidopsis thaliana*

Lara Mutluay, Onur Öztaş (*Istanbul*)

32 • The impact of apoplastic pH on Rapid Alkalization Factor (RALF) peptide signaling and condensate formation.

Miriam Kaltwasser, Elke Barbez (*Freiburg*)

Session 3 – ABIOTIC INTERACTIONS (Aula)

33 Localization of ABA biosynthesis and response under water deficit

Rainer Waadt, Robin Rasiah, Christina Heising (*Münster*)

34 Uncovering mechanisms behind the exceptional drought resilience of *Physcomitrium patens*

Lea Hembach, Lea Preuß, Till Ischebeck (*Münster*)

35 • Cross-talk of brassinosteroid signaling with the heat shock response

Qiwei Zhang, Qiwei Zhang & Brigitte Poppenberger (*Freising*)

36 • Different adaptation strategies in protein and amino acid metabolism in response to water stress across species

Nele Passon, Daniel Wasim Djamriani, Cecile Angermann, Tatjana Hildebrandt, Nadine Töpfer (*Köln*)

37 • PIF4-regulating (b)HLH proteins as modulators of thermomorphogenesis

Lieselotte Rauh, Rebecca Lippmann, Lennart Eschen-Lippold, Matthias Reimers, Kathrin Denk, Carolin Delker (*Halle*)

38 • Root thermomorphogenesis is mediated by cell cycle-activating TOR kinase

Tilman Jacob, Orlando Maciel Rodrigues Junior, Haiyue Ai, Sarah Courbier, Lennart Eschen-Lippold, Carolin Delker, Marcel Quint (*Halle*)

39 • SnRK1 dependent transcription factors controlling Arabidopsis seedling establishment

Kumari Monika, Markus Henninger, Christoph Weiste, Wolfgang Dröge-Laser (*Würzburg*)

Session 4 – TOOLS & RESOURCES (Aula)

40 SFB 1664 - Plant Proteoform Diversity - SNP2Prot

Marcel Quint (*Halle*)

41 • Automated time-series analysis of auxin signaling reporter activity reveals how auxin patterning and oscillation define root system architecture

Sophie Zoe Farkas, Chengzhi Ren, Elisa Kotzurek, Krzysztof Wabnik, Jürgen Kleine-Vehn (*Freiburg*)

42 • Optimization of in planta transformation for a fast and efficient generation of helper gene free transgenic plants

Vanessa Brückner, Martin Schattat (*Halle*)

43 • When plants cry (for our benefit) - Engineering guttation fluid into a source for secondary metabolites

Simon Felix Ortmann, Martin Schattat (*Halle*)

44 Elevating the Glow: Artificial Introns as Amplifiers for Protein Production and Native Promoters

Sebastian Samwald, Tom Schreiber, Tonni Grube Andersen (*Köln*)

45 Application of advanced nuclear genome editing techniques in *Chlamydomonas reinhardtii*

Max Angstenberger, Pascal Herrmann, Tobias Wunder, Leon Eulitz, Lara Bragazza, Valentina Andrin, Simone Barera, Mehrdad Jaber, Claudia Battarra, Edoardo Cutolo, Roberto Caferr, Luca dall'Osto, Hans-Henning Kunz, Roberto Bassi, Claudia Büchel (*Frankfurt*)

Session 5 – BIOTIC INTERACTIONS (room Euskirchen)

46 Magic Spot Nucleotides in plant immunity: (p)ppGpp as a novel signal molecule in Arabidopsis-pathogen interaction

Esther Lange, Danye Qiu, Isabel Prucker, Shinji Masuda, Yan L. Wang, Georg Felix, Gabriel Schaaf, Henning J. Jessen (*Bonn*)

47 • The role of camalexin in the interaction with bacteria in the root

Enrique Rodríguez de la Garza, Anna Koprivova, Stanislav Kopriva (*Köln*)

48 • Cell-cell connections between Cuscuta and its host

Arne Greif, Ruth Stadler (*Erlangen*)

49 • Chitosan induces CERK1-LYK4 dependent, cell-specific membrane depolarisation pathway in mesophyll cells of Arabidopsis thaliana

P. T.M. Krishani Chaturika Tennakoon, Namrah Ahamad, Dirk Becker, Rob Roelfsema (*Würzburg*)

50 • Virus-induced microenvironments within plant cells

Jens Christian Mülders, Laura Kalms, Annett Grimm, Marion Clavel (*Potsdam*)

51 Loss of starch biosynthesis in the sweet11/sweet12 double mutant leads to a switch in resistance mode

Lars Voll, Julia Seufer, Samuel Goll, Aileen Dahm, Henriette Leicher, Pierre Gebauer, Martin Stegmann, Timo Engelsdorf (*Marburg*)

52 The native root microbiota tempers the plant immune homeostasis via metabolic interference of glutamate signaling

Frederickson Entila, Johannes Ben Herpell, Sarah Marie Wolf, Pratchaya Pramroj Na Ayutthaya, Silvina Perin, Swati Mahiwal, Stéphane Hacquard (*Köln*)

53 SCAR/WAVE cell development regulators differentially influence barley root interactions with detrimental and beneficial microbes

Sabine Brumm, Matthew Macleod, Isaac Coven, Inmaculada Hernández-Pinzón, Edouard Evangelisti, Matthew J. Moscou and Sebastian Schornack (*Freising*)

Session 6 – EVOLUTION (room Euskirchen)

54 • New sources of momilactones

Peter Kerpan, Julia Bechteler, Michael Gigl, Sanna Huttunen, Neil Bell, Lars Hedenäs, Claude Becker (*Munich*)

55 • Inferring the Nature of the Most Recent Common Ancestor of Plants

Deepti Varshney, James W. Clark, Saskia Hiltemann, Paul Kenrick, Björn A. Grüning, Philip Donoghue, Jan de Vries, Stefan A. Rensing (*Freiburg*)

56 • Neglected No More - Classifying an Unresolved Utricularia sample with Long Read Sequencing

Samuel Nestor Meckoni (*Bonn*)

57 • Birth and death of monoterpene synthases in *Tanacetum vulgare*

Marvin Hildebrandt, Andrea Bräutigam, Bianca Laker, Caroline Müller, Dominik Ziaja, Elisabeth Eilers, Katharina Schiller, Marion Eisenhut, Prisca Viehöver, Ruth Jakobs, Sebastian Tschikin, Stefan Hammer (*Bielefeld*)

58 DiversiPHY and conquer - Diversification of Phytochromes during plant terrestrialization

Alisha Alisha, Andreas Hiltbrunner (*Freiburg*)

Session 7 – ACROSS FIELDS (room Euskirchen)

59 • Targeting of function and structure of Arabidopsis dicing complex proteoforms on microRNA biogenesis

Cecile Scholl, Lars Grosch, Jana Baradei, Panagiotis Kastiris, Clara Schoeder, Sascha Laubinger (*Halle*)

60 • Proteome plasticity as a potential resource for ecological resilience under environmental stress in plants

Daniel Wasim Djamriani, Tatjana Hildebrandt (*Köln*)

61 • SIGLR-dependent activation of wound-response calcium signaling in tomato

Sergio F. Mosquera Rodríguez (*Stuttgart*)

62 • Uncovering the Mode of Action of a Novel Food-Industry-Based Herbicide

Lina G. Spiller, Michael Blum, Annemarie Roggentin, Daniel Maag, Markus Krischke, Martin Lehmann, Peter Ache, Ines Kreuzer, Dirk Becker, Maxim Messerer, Markus Sauer, Dietmar Geiger, Rainer Hedrich (*Würzburg*)

63 • The chloroplast RNA helicase RH3 is found in phase-separated granules together with the RNA binding protein CP29A

Nazanin Mahouram Mashhadi (*Berlin*)

64 Decoding the role of plastid Ca²⁺ signaling in plant defense: Plastid Envelope Ion Channels are involved in JA signaling

Susanne Mühlbauer, Dawid Jaslan, Inês Nunes, Lena Wutz, Khansa Mekkaoui, Benjamin Brandt, Sanja Zenker, Jakob Rehberger, Marlena Rädler, Lorenz Holzner, Constance Tisserant, Silke Robatzek, Bettina Hause, Christian Grimm, Hans-Henning Kunz (*Munich*)

Session 8 – ORGANELLES (room Euskirchen)

65 Plastid monosaccharide and inosine monophosphate transport

Claus-Peter Witte, Luisa Voß, Isabell Keller, Rebekka Schröder, Denise Mehner-Breitfeld, Nieves Medina-Escobar, Marco Herde, Thomas Brüser, Ekkehard Neuhaus (*Hannover*)

66 • Linking N-terminal acetylation to E3 Ligase–driven degradation of plastid precursors

Pia M. Möllenbeck, Tim R. Demmig, Dominique S. Stolle, Sacha Baginsky (*Bochum*)

67 • Fatty acid transport across the ER membrane

Kshitij Bhushan, Alexander Banguela-Castillo, Anne Könerl, Katrin Philippar (*Saarbrücken*)

68 • Intracellular transport of metabolites

Abhayanjali Tripathi, Zahraa Ousseily, Katrin Philippar (*Saarbrücken*)

69 Structure and function of FAX proteins – fatty acid/lipid transport in the light of land plant evolution

Katrin Philippar, Alexander Banguela-Castillo, Zahraa Ousseily, Jens Neunzig, Franz Hagn (*Saarbrücken*)

70 • Cotranslational sorting and integration of chloroplast-encoded multi-span thylakoid membrane proteins

Lena Osterhoff, Marvin Rütten, Mike Schamne, Raphael Stoll, Eckhard Hofmann, Danja Schünemann (*Bochum*)

71 • Adaptations of chloroplast protein transport mechanisms during land plant evolution

Chiara Kuhlmann, Annika Bischoff, Beatrix Dünschede, Julia Bollmann, Melanie Kreiss, Ute Höcker, Danja Schünemann (*Bochum*)

72 • Size of chloroplasts in Arabidopsis mesophyll cells affects jasmonate biosynthesis

Ranjit Baral, Hagen Stellmach, Sumual N. Kariithi, Mareike Heilmann, Stephanie Krüger, Jörg Ziegler, Bettina Hause (*Halle*)

73 • Investigating the sucrose induced regulation of stromule formation and its impact on Plastid-Nucleus-Interactions

Vivian Linke, Martin Schattat (*Halle*)

74 • Uncovering The Interaction Landscape of PDR2

Julian Arndt, Anne-Sophie Kuhn, Christin Naumann (*Halle*)

75 Conducting stress signaling: Impact of organellar calcium dynamics on salt tolerance

Franziska Daamen, Nico Rössner, Sara Morghen, Nils Wörz, Bastian Meier, Edgar Peiter (*Halle*)

76 • Determining the plastid ionome shines light on organellar iron uptake

Lorenz Holzner, Lucia Östergaard Frank, Susanne Mühlbauer, Anna Müller, Laura Schröder, Charlotte Seydel, Jennifer Grünert, Rachael A. DeTar, Katrin Philippar, Andreas Klingl, David Mendoza-Cózati, Ute Krämer, Thomas Nägele, Bettina Bölter, Hans-Henning Kunz (*Munich*)

77 • Night shift of a plastid protein kinase maintains starch metabolism in Arabidopsis thaliana

Tim Demmig (*Bochum*)

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Reinhold-von-Sengbusch Award

Since the 100th birthday of Reinhold von Sengbusch in 1998, his descendants have supported an award given to junior researchers for the best poster presentation. In 2010, an additional award was introduced for the best oral presentation by young scientists.

Poster awards

- 2025** Lisa Koch (Universität Erlangen-Nürnberg)
Sarah Koutnik-Abele (Technische Universität München-Freising)
Sadia Sayed Tamanna (Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau)
- 2024** Maleen Hartenstein (*Universität Erlangen-Nürnberg*)
Susanne Mühlbauer (*LMU München*)
David Görg (*IPB Halle*)
- 2023** Gali Estopare Araguirang (*Universität Rostock*)
Maike Hansen (*Universität Köln*)
Srijana Raj (*Universität Halle-Wittenberg*)
Kaltra Xhelilaj (*Universität Tübingen*)
- 2020** Isabelle Elisabeth Metzen (*Universität Köln*)
Alexander Beesley (*RWTH Aachen*)
Hannah Elisa Krawczyk (*Universität Göttingen*)
- 2019** Alexander Kutschera (*TU München*)
Lisa-Marie Schmid (*LMU München*)
Chen Lin (*Universität Kiel*)
- 2018** Emese Xochitl Szabo (*Universität Oldenburg*)
Lara Ostermann (*Universität Bonn*)
Katja Meyer (*Universität Bielefeld*)
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Hannah Elisa Krawczyk (*Universität Münster*)
- 2016** Rebecca Dautel (*Universität Tübingen*)
Philipp Köster (*Universität Münster*)
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Kai H. Edel (*Universität Münster*)
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- 2012** Isabel Aller (*Universität Bonn*)
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- 2011** Meike Siebers (*Universität Bonn*)
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- 2010** Heidi Scholze (*Universität Halle-Wittenberg*)
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Anja Branscheid (*MPI Golm*)
- 2009** Andrea Werner (*FU Berlin*)
Corinna Streitner (*Universität Bielefeld*)
Frederique Breuers (*Universität Düsseldorf*)
- 2008** Anne Bohner (*Universität Hohenheim*)
Robin Jonathan Horst (*Universität Erlangen-Nürnberg*)
Nicole Sommer (*Universität Halle-Wittenberg*)
- 2007** Katrin Held (*Universität Münster*)
Jutta Rösler (*Universität Gießen*)
Anja Rödingen (*Universität Halle-Wittenberg*)
- 2006** Annika Hinze (*Universität Freiburg*)
Nadja Engel (*Universität Rostock*)
Bettina Bölter (*Universität München*)
- 2005** Jesco Heinemeyer (*Universität Hannover*)
Yvonne-Simone Klepek (*Universität Erlangen-Nürnberg*)
Anja M. Kuschinsky (*MPI Golm*)
- 2004** Oliver Kötting (*Universität Potsdam*)
Tanja Löttgert (*Universität Köln*)
Markus Albert (*TU Darmstadt*)
- 2003** Claudia Haß (*Universität Köln*)
Marco A. Hurth (*Universität Kaiserslautern*)
Birte Kuhla (*HU Berlin*)
- 2002** Silke Robatzek (*Friedrich-Miescher-Institut Basel*)
Judith Müller (*MPI Köln*)
Ines Kubigstellig (*Ruhr-Universität Bochum*)
- 2001** Ulrike S. Unte (*MPI Köln*)
Anke Thilo (*Universität Osnabrück*)
Stephan Brandt (*MPI Golm*)
- 2000** Dietrich Ober (*TU Braunschweig*)
Achim Haecker (*Universität Tübingen*)
Dorothea Haasen (*Universität Freiburg*)
- 1999** Frederik Börnke (*IPK Gatersleben*)
Andreas Ludwig (*Universität Erlangen-Nürnberg*)
Marcus Riehl (*MPI Köln*)

1998 Susanne Beckert (*Universität Ulm*)
Maryse Laloi (*MPI Golm*)
Stephan Elge (*MPI Golm*)

Talk awards

- 2025** Leon Pierdzig (Universität Göttingen)
Dennis Brandt (Universität Münster)
Clara Paola Igisch (Universität Lyon)
- 2024** Lisa Koch (*Universität Erlangen-Nürnberg*)
Sebastian Triesch (*Universität Düsseldorf*)
Seinab Noura (*Universität Freiburg*)
- 2023** Rong Li (*Universität Hohenheim*)
Sophie Lichtenauer (*Universität Münster*)
Luca Pedroletti (*Universität Bonn*)
Laura Trimborn (*Universität Köln*)
- 2020** Christina Martins Rodriguez (*TU Kaiserslautern*)
Elena Lesch (*Universität Bonn*)
Rabea Meyberg (*Universität Marburg*)
- 2019** Katharina Johanna Winkel (*Universität Hannover*)
Jana Christin Askani (*Universität Heidelberg*)
José Manuel Ugalde (*Universität Bonn*)
- 2018** Anchilie Mangilet (*Universität Oldenburg*)
Franziska Kuhnert (*Universität Düsseldorf*)
Jan Knop (*Universität Hamburg*)
- 2017** Jana Christin Askani (*Universität Heidelberg*)
Shanshan Wang (*Universität Heidelberg*)
Daniela Pezzetta (*FU Berlin*)
- 2016** Giulia Furlan (*Universität Halle-Wittenberg*)
Michael Meyer (*Universität Hohenheim*)
Amaya Vilches Barro (*Universität Heidelberg*)
- 2015** Yihan Dong (*Universität Heidelberg*)
Vivek Halder (*MPI Köln*)
Viviana Correa Galvis (*Universität Düsseldorf*)
- 2014** Franziska Hempel (*Universität Halle-Wittenberg*)
Suayib Üstün (*Leibniz Institut Großbeeren*)
- 2013** Roman Lassig (*FU Berlin*)
Monika Huber (*Universität Heidelberg*)
Thomas Nakel (*Universität Tübingen*)
- 2012** Anne Kriegel (*Universität Heidelberg*)
Martin Muthreich (*Universität Göttingen*)
Blen Beyene (*Universität Bayreuth*)
- 2011** Dirk Jessen (*Universität Göttingen*)
Ulrich Wenig (*Universität Erlangen-Nürnberg*)
Blen Beyene (*Universität Bayreuth*)
- 2010** Esther Görlich (*Universität Heidelberg*)
Martin Engqvist (*Universität Köln*)

The Plant Journal Award

- 2025** Tonni Grube Andersen (Universität Köln)
- 2024** Margot Smit (*Universität Tübingen*)
- 2023** Arthur Korte (*Universität Würzburg*)
- 2022** Romy Schmidt (*Universität Bielefeld*)

The Agrisera Award

- 2025** Gwendolyn K. Kirschner (*University of Bonn*)
- 2024** Marc Somssich (*MPI Köln*)
- 2023** Beatrix Enderle (*Universität Freiburg*)

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