

DCPS Day 2019

June 20th, 2019

Venues – Lecture Hall of Botanical Museum, Königin-Luise-Str. 6-8 & Plant Physiology, Königin-Luise-Str. 12-16

13.00-13:10	Welcome and Opening – Thomas Schmülling
	Session 1 – Chair: Florencia Sena
13:10-13:40	Nico von Wiren – Physiology and Cell Biology, IPK Gatersleben Impact of nutrient signals on the phytohormonal regulation of root architectural traits
13:40-13:55	Katharina Bursch – Light Signaling Networks Illuminating the karrikin signaling pathway in <i>Arabidopsis thaliana</i>
13:55-14:10	Thomas Griebel – Plant Physiology Circuitries of plant cross stress signalling: The plastid antioxidant system
14:10-14:25	Grischa Brokamp – Systematic Botany and Plant Geography Integrated biodiversity management in exemplar regions of Colombia
14:25-15:10	Picture of Participants Coffee Break I
	Session 2 – Chair: Janik Hundacker
15:10-15:40	Michael Lenhard – Institute for Biochemistry and Biology, University of Potsdam The molecular basis of heterostyly
15:40-15:55	Norbert Bittner – Molecular Genetics of Plants Priming of plants and insect eggs
15:55-16:10	Arne Weinhold – Applied Zoology Animal Ecology Limits of host-microbe manipulations in plants
16:10-16:40	Barbara Jäckel – Pflanzenschutzamt Berlin, Senatsverwaltung für Umwelt, Verkehr und Klimaschutz Gesundes Stadtgrün - eine Herausforderung
16:40-17:00	Coffee Break II

	Session 3 – Chair: Astrid de Mestier du Bourg
17:00-17:30	Gudrun Kadereit – Biodiversity and Evolution of Plants, University of Mainz Diversity of C4 photosynthesis - an example of multiple convergent evolution of a complex trait.
17:30-17:45	Ireen Schwarz – Molecular Developmental Biology of Plants Translational research: Cytokinin genes regulate inflorescence activity and yield in oilseed rape
17:45-18:00	Teresa Kowar – Epigenetics of Plants Understanding the role of the chromatin regulator PRC2 in a unicellular alga
18:00-18:15	Raffaella De Masi – Plant Stress Signaling Profiling an outsider: evolutionary conserved WWE domains and their elusive functions in plants
18:15	Change of Venue: Plant Physiology
18:15-later	Poster Session
19:00-later	Barbecue

Poster Session at DCPS Day 2019

1. Katharina Bursch, Elsa Niemann & Henrik Johansson

The role of BBX proteins in karrikin signaling

2. Anton Güntsch, Gabriele Dröge, Eva Häffner, Walter Berendsohn, Albert-Dieter Stevens & Thomas Borsch

Der BGBM- eine integrierte Sammlungs- und Forschungseinrichtung

3. Melissa Romich, Kora Vyse, Ellen Zuther, Dirk Hinchha & Daniel Schubert

Role of histone phosphorylation and variants in stress priming and memory

4. Léa Faivre & Daniel Schubert

Cold stress memory and trainable genes: the role of histone and DNA methylation

5. Claire Jourdain, Kalyanikrishna, Pawel Mikulski, Mareike Hohenstatt & Daniel Schubert

Regulation of the nuclear size by the cohesin cofactor PDS5 in *Arabidopsis*

6. Lisa Dunst & Julien Bachelier

Sex differentiation in plants: Early and late abortion before and after meiosis leads to unisexuality in *Silene acaulis*

7. Manuel Frank, Anne Cortleven, Ondrej Novak and Thomas Schmülling

An antagonistic function of cytokinin and auxin in photoperiod stress

8. Anne Cortleven, Walid Abuelsoud, Manuel Frank, Silvia Nitschke, Ivo Feussner & Thomas Schmülling

Photoperiod stress induced by a longer light period causes a strong oxidative burst and reveals crosstalk between jasmonic acid, cytokinin and the circadian clock

9. Walid Abuelsoud, Anne Cortleven, Manuel Frank and Thomas Schmülling

Photoperiod stress induces a strong oxidative burst

10. Thomas Schmülling, Eswar Ramireddy, Ireen Schwarz, Isabel Bartrina, Tomáš Werner, Erika Nehnevajova, Elisabeth Otto, Seyed A. Hosseini, Kai Eggert, Heike Gnad, Nicolaus von Wirén, Andrea Stolz, Maria Gerdemann-Knörck, Michael Riefler, Ondřej Novák, Miroslav Strnad, Hilde Nelissen, Dirk Inzé, Marie-Therese Scheirlinck, Ralf-Christian Schmidt, Tobias Brüggemann, Matthias Fladung

Enhanced growth and organ formation in crop plants by targeted modulation of the cytokinin system

11. Sören Werner, Isabel Bartrina & Thomas Schmülling

Cytokinin regulates the juvenile-to-adult phase transition in *Arabidopsis thaliana*

12. Sylvia Bolt, Stefanie Zintl, Ellen Zuther, Dirk K. Hinchha & Thomas Schmülling

The *ERF102* to *ERF105* genes of *Arabidopsis thaliana* regulate root architecture and the response to cold stress

13. Thomas Griebel, Alina Ebert, Hoang Hung Nguyen, Maximilian Gaiko, Georgios Padopoulos & Margarete Baier

Cold priming memory reduces susceptibility to virulent pathogens and requires functional plastid peroxidases system in *Arabidopsis thaliana*

14. Victoria Seiml-Buchinger, Andras Bittner & Margarete Baier

Cold priming affects the chloroplast membrane-associated proteins in *Arabidopsis*

15. Andras Bittner, Jörn van Buer, Andreas Prescher & Margarete Baier

Short mild stress primes chloroplast stress signaling for several days in *Arabidopsis thaliana*

16. Valentin Hammoudi, Carla Castro, Elisa Goldbecker, Maria Singer, Zhenxing Wang & Reinhard Kunze

Is XlincR a new peptide involved in DNA-damage response?

17. Florencia Sena, Yue Zheng, Navina Drechsler & Reinhard Kunze

The potassium transporter NRT1.5 coordinates K^+ and NO_3^- -homeostasis in *Arabidopsis thaliana*.

18. Georgios Valsamakis & Vivien Lortzing

PRIMING BY TIMING: The kinetics of plant anti-herbivore defense primed by insect egg deposition

19. Sebastian Hosch & Lennart Wirthmüller

Biochemistry of plant PARPs

20. Katharina Ziegler & Bitta Tietjen

Theoretical ecology - How models help to understand ecosystem processes

21. Tobias Lortzing, Reinhard Kunze, Anke Steppuhn, Monika Hilker & Vivien Lortzing

A comparative analysis of functional plant transcriptome responses to herbivore eggs and feeding in tobacco, *Arabidopsis*, nightshade and elm

22. Rainer E.H. Cramer & Anke Steppuhn

Fitness consequences of oviposition priming in *Nicotiana attenuata*

23. Georgeta Leonte, Henriette Weber, Matthieu Bourdon & Tomáš Werner

Identification of novel plasmodesmata-associated proteins altering cytokinin responses in *Arabidopsis*

24. Sarah C. Lederer, Philipp Schulz & Tina Romeis

Does calcium influence the longevity of plants?

25. Bernadette Eichstädt, Anja Liese, Waltraud X. Schulze, K. R. Konrad & Tina Romeis

Imaging calcium-dependent CDPK conformational change *in vitro* and *in planta* using a FRET-based approach

26. Johanna Schott, Benjamin Fuchs, Christoph Böttcher, Vivien Firtzlaff, Simone Altmann & Monika Hilker

Priming of elm anti-herbivore defence

27. Jenny Engelmann & Tomáš Werner

Identification and characterization of natural antisense transcripts at *CKX* loci in *Arabidopsis thaliana*