

# DCPS Day 2017

July 6<sup>th</sup>, 2017

**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: Andras Bittner (PhD student representative)**

13:10-13:45 **Eckhard George – Leibniz Institute of Vegetable and Ornamental Crops (IGZ)**  
Is there life outside the university? Plant research at the Leibniz Institute for Vegetable and Ornamental Plants (IGZ)

13:45-14:00 **Katharina Hake – Biochemistry of Plants**  
CDPKs in plant stress immune signaling

14:00-14:15 **Elke Diederichsen – Applied Genetics | Genetics of Plant Resistance**  
Resistance genetics: From basics to breeding

14:15-15:00 **Picture of Participants**  
**Coffee Break I**

**Session 2 – Chair: Bernadette Eichstädt (PhD student representative)**

15:00-15:35 **Hartwig Schulz – Julius Kühn Institute**  
Contributions of the Institute for Ecological Chemistry, Plant Analysis and Stored Product Protection to Research Studies aiming to make Agriculture more sustainable

15:35-15:50 **Inês Trindade – Epigenetics of Plants**  
Epigenetic regulation of floral commitment in *Arabidopsis thaliana*

15:50-16:05 **Sören Werner – Applied Genetics | Molecular Developmental Biology of Plants**  
Cytokinin regulates the juvenile-to-adult phase transition in *Arabidopsis* through miR172

16:05-16:40 **Patricia Rahemipour & Kathrin Grotz – Botanical Garden and Botanical Museum**  
The Botanical Museum Berlin – history | future

16:40-17:00 **Coffee Break II**

**Session 3 – Chair: Manuel Frank (PhD student representative)**

17:00-17:35 **Camilla Liput – Bayer CropScience**  
Regulatory Affairs- Bridging Science and Law

17:35-17:50 **Katja Reichel – Systematic Botany and Geography of Plants**  
Adaptive advantages of partial clonality in plants

17:50-18:05 **Thomas Griebel – Plant Physiology**  
Transcriptional control at the interface of plant growth and immunity

18:05 **Change of Venue: Plant Physiology**

18:15-19:00 **Poster Session**

19:00 **Barbecue**

# DCPS Day 2017 – Poster Session

July 6, 2017

## No. Poster

### Biochemistry of Plants

- 1 Jennifer Bortlik, Katharina Hake, Tina Romeis: “C2 – Priming in biotic stress responses mediated by CDPK signalling”
- 2 Benjamin Conrads, Tina Romeis: “Crosstalk between MPK4 and CPK5 in *A. thaliana*”
- 3 Bernadette Eichstädt, Tina Romeis: “Imaging of calcium-dependent CDPK conformational change using a FRET-based approach”

### Biodiversity - Ecological Modelling

- 4 Sebastian Fiedler, José A. F. Monteiro, Michael P. Perring, Britta Tietjen: “Resilient and multifunctional Mediterranean-type ecosystems: Improving restoration by trait-based simulation modelling”
- 5 Katharina Ziegler, Gregor Ratzmann, Britta Tietjen: “Loss in fodder production around water points”

### Epigenetics of Plants

- 6 Lea Faivre, Melissa Romich, Daniel Güterbock, Josephin Lankowski, Daniel Schubert: "tba"

### Genetics of Light Signaling Networks

- 7 Henrik Johansson: “The role of B-box proteins in light signaling”

### Genetics of Plant Resistance

- 8 Sara Hassanein, Yasin Celik, Elke Diederichsen: “Applications of molecular markers in resistance breeding”
- 9 Annika Hoffmann, Claudia Schade, Elke Diederichsen: “Cloning of the *Rpb1* clubroot resistance gene from *Arabidopsis*”

### Molecular Developmental Biology of Plants

- 10 Isabel Bartrina, Sören Werner, Thomas Schmülling: “Exploring the function of cytokinin in regulating flowering time”
- 11 Anne Cortleven, Thomas Schmülling: “Altered Day-Night Rhythms Cause a New Form of Abiotic Stress Revealing Crosstalk Between Cytokinin, Jasmonic Acid and the Circadian Clock”
- 12 Daniela Pezzetta, Thomas Schmülling: “The cytokinin status influences phytochrome-dependent seed germination in *Arabidopsis thaliana*”

### **Molecular Ecology**

- 13 Sylvia Drok, Michele Bandoly, Sandra Stelzer, Tobias Lortzing, Anke Steppuhn: “*Nicotiana attenuata* distinguishes between insect herbivorous by their eggs”
- 14 Daniel Geuss, Sandra Stelzer, Tobias Lortzing, Anke Steppuhn: “*Solanum dulcamara*’s response to insect eggs comprises ovicidal hydrogen peroxide production”
- 15 Tobias Lortzing, OnnoW. Calf, Marlene Böhlke, Jens Schwachtje, Joachim Kopka, Daniel Geuss, Susanne Kosanke, Nicole M. van Dam, Anke Steppuhn: “Sweet Revenge: Extrafloral nectar from wounds on the Bittersweet Nightshade.”

### **Molecular Plant Genetics**

- 16 Kevin Mielich, Reinhard Kunze: „Maize Ac/Ds transposes in *Candida albicans*“
- 17 Yue Zheng, Navina Drechsler , Florencia Sena, Reinhard Kunze: “The Arabidopsis nitrate transporter NPF7.3/NRT1.5 interacts with plasmamembrane H<sup>+</sup>-APTase AHA2”

### **Pharmaceutical Biology**

- 18 Wenyan Xie, Matthias Melzig: “MicroRNAs might act as novel bioactive natural products — *Viscum album L.* miRNAs and their putative roles in medicinal applications”

### **Plant Molecular and Cell Biology**

- 19 Georgeta Leonte, Tianqi Guo, Tomáš Werner: “Characterization of CKX-interacting HIPP proteins”

### **Plant Physiology**

- 20 Andras Bittner, Margarete Baier: “Abiotic *trans* – priming in *Arabidopsis thaliana*”
- 21 Andreas Prescher, Margarete Baier: “The Regulation of sAPX and tAPX and their Role in Cold Memory”
- 22 Aneth Sarmiento, Margarete Baier: “Drought experiments in tropical trees”

### **Plant Stress Signalling**

- 23 Chao Chen, Lennart Wirthmüller: “How is Arabidopsis PARP2 transported to the plant cell nucleus?”

### **Research Group Diatoms**

- 24 Jonas Zimmermann, Regine Jahn: “GBOL2 - Innovative, NGS-based tool to assess Water Framework Directive relevant diatoms”

25 **Berlin-Brandenburg Institute of Advanced Biodiversity Research - BBIB**

26 **CRC 973 “Priming and Memory of Organismic Responses to Stress”**

27 **IRTG “Biocommunication: Mechanisms and Consequences of Information Storage and Retrieval in Plants and Microbes”**