

# Scientific Programme

## International Symposium

### Bridging Ecology and Molecular Biology: Organismic Responses to Recurring Stress

Berlin, Germany, 2018



**Host:**

**Collaborative Research Centre 973, Berlin**

[www.sfb973.de](http://www.sfb973.de)



**Monday, April 9, 2018**

## Welcome: Session 1

***Memory of Environmental Stress and Adaptation to Stress in Plants and Microbes: part A***

14.00 h	A symposium introduction: Past environmental experiences shape phenotypic responses to current conditions	<i>Monika Hilker</i> FU Berlin, CRC 973
14.25 h	Molecular mechanisms of two 'memory' phenomena: jasmonic acid priming and superinduced transcription in response to dehydration stresses	<i>Zoya Avramova</i> Univ. Nebraska-Lincoln, USA
15.05 h	Intracellular communication of abiotic stress, memory and recovery	<i>Barry J. Pogson</i> , Australian Natl. Univ., Acton/Canberra, Australia
15.45 h	<b>Coffee Break</b>	
16.15 h	Evolutionary ecology and genetics of adaptation to antibiotics in bacteria	<i>Rees Kassen</i> Univ. Ottawa, Canada
16.55 h	Poster Spotlights	
17.25 h	<b>Poster Session</b>	

**Tuesday, April 10, 2018**

## Session 2

***Ecological Stress Memory and the Role of Epigenetics, Transcription Factors and Autophagy***

09.00 h	Heritable phenotypic changes induced by stress and developmental reprogramming in plants	<i>Jose Guitierrez-Marcos</i> Univ. Warwick, UK
09.40 h	Temperature sensing in plants	<i>Philip A. Wigge</i> Univ. Cambridge, UK
10.20 h	Epigenetics of cold stress memory	<i>Daniel Schubert</i> , FU Berlin, CRC 973
<b>10.50 h</b>	<b>Coffee Break</b>	
11.20 h	Role of autophagy in plant phenotypic plasticity	<i>Yasin Dagdas</i> Gregor Mendel Inst., Austria
12.00 h	A novel control module for heat stress memory in plants	<i>Salma Balazadeh</i> MPI Potsdam-Golm, CRC 973
12.30 h	Scientific "clips" of CRC 973 projects on session 2 topics	PhD students and postdocs of CRC 973
<b>13.00 h</b>	<b>Lunch</b>	

## Session 3

***Intracellular and Intra-Plant Stress Signalling : Ca<sup>++</sup>, ROS, Phytohormones***

14.20 h	Oxidative stress signalling in plants. Towards the proteome and beyond	<i>Frank van Breusegem</i> VIB-Univ. Gent, Belgium
15.00 h	Learning the languages of the chloroplast: Retrograde signalling and beyond	<i>Barry J. Pogson</i> , Australian Natl. Univ., Acton/Canberra, Australia
15.40 h	Function of CDPKs in systemic plant defence signalling and priming upon microbial and herbivore attack	<i>Tina Romeis</i> FU Berlin, CRC 973
<b>16.10 h</b>	<b>Coffee break</b>	
16.30 h	<b>Poster Session</b>	

**Wednesday, April 11, 2018****Session 3 (continued)**  
***Intracellular and Intra-Plant Stress Signalling : Ca<sup>2+</sup>, ROS, Phytohormones***

09.00 h	Ca <sup>2+</sup> , ROS and systemic stress signaling in <i>Arabidopsis</i>	<i>Simon Gilroy</i> Univ. Wisconsin-Madison, USA
09.40 h	The role of brassinosteroids in cold stress responses of plants	<i>Brigitte Poppenberger</i> TU Munich, Germany
10.20 h	Scientific “clips” of CRC 973 projects on session 3 topics	PhD students and postdocs of CRC 973
10.40 h	<b>Coffee Break</b>	

**Session 4**  
***Plant Stress by Herbivory: Warning of Herbivory, Plant Signalling and Insect Counteradaptations***

11.20 h	Herbivore-induced plant volatiles as priming cues, direct defenses and modulators of tritrophic interactions	<i>Matthias Erb</i> Univ. Bern, Switzerland
12.00 h	Microbes mediate the intersection of herbivore and plant immunity	<i>Gary Felton</i> PennState Univ., USA
12.40 h	Scientific “clips” of CRC 973 projects on session 4 topics	PhD students and postdocs of CRC 973
12.55 h	<b>Lunch</b>	

**Session 5**  
***Memory of Environmental Stress and Adaptation to Stress in Plants and Microbes: part B***

14.00 h	Evolutionary ecology of microbial siderophore-mediated metal detoxification	<i>Angus Buckling</i> Univ. Exeter, UK
14.40 h	Oxidative stress priming and resistance mechanisms in the human pathogen <i>Staphylococcus aureus</i>	<i>Haike Antelmann</i> FU Berlin, CRC 973
15.10 h	Primed to be strong, primed to be fast: Modelling different priming responses and their benefits	<i>Britta Tietjen</i> FU Berlin, CRC 973

**Closing Session**

15.40 h	<i>Networking Café (including coffee break)</i>	
17.15 h	Concluding remarks	<i>Tina Romeis</i> FU Berlin, CRC 973