#### **EXTENDED PROGRAMME**

## Monday, 10th of June 2019

12:00 – 20:00	Registration
13:00 – 15:30	Meeting Scientific Board
Opening session	
16:00 – 16:30	Welcome speech by organizers
16:30 – 17:15	Opening Lecture: From genome to pan-genome in barley and wheat.  Nils Stein (IPK Gatersleben, Germany)
17:15 – 18:00	Plenary Lecture: Morphogenetic regulatory networks.
	Miltos Tsiantis (Max Planck Institute Cologne, Germany)
18:00 – 21:00	Welcome Party

# PLANT BIOTECHNOLOGY: GREEN FOR GOOD V.



## Tuesday, 11th of June 2019

ruesday, 11 or June 2015		
8:30 – 12:30	Registration	
<b>Crop biotechnology</b> Chair: I. Dodd		
09:00 - 09:40	Keynote lecture: Drought adaptation and flowering time control in barley.	
	Maria von Korff Schmising (Max Planck Institute, Cologne, Germany)	
09:40 – 10:00	Domestication delayed circadian rhythms in tomato.	
	José Jiménez-Gómez (INRA Versailles, France)	
10:00 – 10:20	Using site-directed mutagenesis to manipulate beer quality and other cereal traits.	
	<b>Goetz Hensel</b> (Leibniz Institute of Plant Genetics and Crop Plant Research)	
10:20 – 10:40	Targeting gibberellin signalling for improved plant architecture and stress tolerance in wheat.	
	<b>Peter Hedden</b> (Laboratory of Growth Regulators, Czech Academy of Sciences, Institute of Experimental Botany & Palacký University)	
10:40 - 11:00	Coffee Break	
Plant-microorganism interactions I Chair: S. Wendeborn		
11:00 – 11:40	Keynote lecture: Arbuscular mycorrhiza development and function.	
	Caroline Gutjahr (Technical University of Munich, Germany)	
11:40 – 12:00	Advanced light-sheet fluorescence microscopy of plant development and plant-microbe interactions in <i>Medicago sativa</i> .	
	Miroslav Ovečka (Palacký University Olomouc, Czech Republic)	
12:00 – 12:20	Follow-up of the degradation of thiametoxam and its metabolite clothianidin in open field cultivated industrial tomatoes: influence of mycorrhizal inoculation.	
	<b>Kamirán Hamow</b> (Hungarian Academy of Sciences, Centre for Agricultural Research, Hungary)	
12:20 – 12:40	The efficacy of plant hormone containing product GreenCytokinin in field experiments.	
	Simona Larsson (Razosanas Tehnologijas, Latvia)	
12:40 - 14:00	Lunch	

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### Plant genetics and genomics

Chair: G. Hensel

14:00 – 14:30	Keynote lecture: Plant epigenetics, plant - plant environmental interactions.  Claude Becker (Gregor Mendel Institute, Vienna, Austria)	
14:30 – 15:00	Genome stability in maize. <b>Lieven de Veylder</b> (VIB Ghent, Belgium)	
15:00 – 15:20	SMC5/6 complex maintains normal ploidy levels of male gametes during generative development in Arabidopsis.  Ales Pečinka (Institute of Experimental Botany CAS, Czech Republic)	
15:20 – 15:40	MicroRNA-regulated stress responses in banana.  Jennifer Ann Harikrishna (University of Malaya, Malaysia)	
15:40 – 16:10	Coffee Break	
Plant-microorganism interactions II Chair: E. Balázs		
16:10 – 16:30	Volatile compounds other than CO2 emitted by different microorganisms promote distinct post-transcriptionally regulated responses in plants.	
	Javier Pozueta-Romero (National Spanish Research Council, Spain)	
16:30 – 16:50	Selection and bioactivity of microalgae for agricultural purposes - concept and biological aspects of the SABANA project.  Vince Ördög (Széchenyi István University, Hungary)	
17:00 – 19:00	Poster Session	

# PLANT BIOTECHNOLOGY: GREEN FOR GOOD V.



## Wednesday, 12th of June 2019

Chair: I. Frébort

09:00 – 09:40	Cereal genetic engineering.  Eva Stöger (BOKU, Vienna, Austria)	
09:40 – 10:00	GWAS: Fast-forwarding gene identification and characterization in temperate cereals.  Ahmad Alqudah (IPK, Germany)	
10:00 – 10:20	Study of cytokinin-mediated tolerance under water stress using a novel image method based on the canopy height of barley populations.  C. F. Marchetti (Palacký University, Czech Republic)	
10:20 – 10:40	Kinetics of nuclear ploidy changes in developing grains of barley. <b>Anna Nowicka</b> (Institute of Experimental Botany CAS, Czech Republic)	
10:40 - 11:00	Coffee Break	
Improvement of food and feed Chair: A. Pečinka		
11:00 – 11:40	Keynote lecture: Plant genome editing.  Sungwa Choe (Seoul National University, South Korea)	
11:40 – 12:00	Metabolomics and MALDI MS Imaging (MSI) of metabolites in barley seeds during malting.  Karsten Niehaus (Universität Bielefeld, Germany)	
12:00 – 12:20	Highly effective inhibitors of cytokinin oxidase/dehydrogenase.  Jaroslav Nisler (Palacký University, Czech Republic)	
12:20 – 12:40	Effects of elicitors on ginsenoside production in hairy root culture of Panax vietnamensis Ha et Grushv.  Loan Ha Thi (Biotechnology Center of Ho Chi Minh city, Vietnam)	
12:40 – 14:00	Lunch	

# PLANT BIOTECHNOLOGY: GREEN FOR GOOD V.



### **Publication and grant workshop**

Chair: M. Holecová

14:00 – 14:20	How to be sure your paper will be rejected.  Jeff Cole (University of Birmingham, UK)
14:20 – 14:40	Publish or perish OR Publish & perish (ethics in scientific publishing). <b>Lynn Sherrer</b> (Elsevier, USA)
14:40 – 15:00	ERC grant selection process experience.  Michal Otyepka (RCPTM Olomouc, Czech Republic)
15:00 – 15:20	Support to biotechnology and bioeconomy research in Horizon 2020 programme  Naďa Koníčková (Technology Centre, Czech Academy of Sciences, Czech Republic)
15:20 – 15:40	Coffee Break
15:40 – 17:00	Poster Session
18:00 – 22:00	Excursion to the research facilities of the host Centre of the Region Haná for Biotechnological and Agricultural Research Networking event



### Thursday, 13th of June 2019

Sustainable environmental technologies		
Chair: M. Otyepka	nental teamologico	
09:00 – 09:40	Keynote lecture: Carbonaceous waste: sustainable applications in chemical transformations and environmental remediation.  Rajender S. Varma (U.S. Environmental Protection Agency, USA)	
09:40 – 10:10	Iron-based (nano)materials: an advanced tool for water treatment.  Jan Filip (Palacký University, Czech Republic)	
10:10 – 10:20	Natural plant biostimulants for invigorating pollen growth.  Johannes Van Staden (University of KwaZulu-Natal, South Africa)	
10:20 -10:50	Coffee Break	
Plant environmental interactions Chair: J. Šamaj		
10:50 – 11:30	Keynote lecture: Using rhizobia to reduce N2O emissions.  Asa Frostegard (Norwegian University of Life Sciences, Ås, Norway)	
11:30 – 11:50	Size matters!? Influence of giant cells on ER body formation in Arabidopsis thaliana.  Alwine Wilkens (Jagiellonian University, Poland)	
11:50 – 12:10	NAI2 and TSA1 Paralogous are responsible for differentiation constitutive and inducible ER body formation in Brassicaceae.  Jakub Bizan (Malopolska Centre of Biotechnology, Poland)	
Closing session		
12:10 – 12:50	Closing Plenary Lecture: Microbial redox chemistry of nitrogen in soil by bacteria and archaea.	
	Kyle Lancaster (Cornel University, USA; supported by USDA)	
12:50 – 13:10	Closing remarks, poster awards	
13:10	Final adjournment	