

German Plant Breeding Conference

28.02.-02.03.2018

Gefördert durch
DFG Deutsche
Forschungsgemeinschaft

Program Leveraging the value of genomic information

Wednesday, February 28, 2018

Session 1: Conservation and Characterization of Plant Genetic Resources

- 13:00 **Susan McCouch** Cornell University, Ithaca, New York, US
Keynote Speaker
Harnessing genetic variation in the immune system of wild wheats
- 13:40 **Frank Begemann** BLE, Bonn, GE
Invited Speaker
Implications of the access and benefit-sharing framework on research and breeding in Germany
- 14:05 **Nils Stein** IPK, Gatersleben, GE
Invited Speaker
Genebank Genomics – “collecting stamps” or service to research and application?
- 14:30 **Frank Ordon** JKI, Quedlinburg, GE
Invited Speaker
Harnessing genetic diversity for improving resistance in cereals
- 15:00 **Coffee and Poster Session**

Session 2: Trait Mapping/Gene Discovery (I)

- 16:00 **Rajeev Varshney** ICRISAT, Patancheru, IN
Keynote Speaker
Genomics of germplasm for genomics-assisted crop improvement in legumes
- 16:40 **Maria von Korff Schmising** University Düsseldorf, GE
Invited Speaker
Identification and functional characterisation of novel genes controlling inflorescence development in barley
- 17:05 **Hermann Bürstmayr** BOKU Wien, AT
Invited Speaker
Genomics assisted improvement of Fusarium head blight resistance in bread wheat, durum wheat and triticale
- 17:30 **NN**
- 17:50 **Coffee and Poster Session**
- 18:50 **Achim Dobermann** Rothamsted Research, Harpenden, UK
Keynote Speaker
Evening lecture: Challenges and opportunities of crop improvement – an agronomist’s view
- 19:30 **Reception**

Thursday, March 1, 2018

Session 2: Trait Mapping/Gene Discovery (II)

- 8:30 **Brande Wulff** John Innes Centre, Norwich, UK
Keynote Speaker
Harnessing genetic variation in the immune system of wild wheats
- 9:10 **Rod Snowdon** University Gießen, GE
Invited Speaker
To see or not two C? That is the QTL!
- 9:35 **NN**
- 9:55 **NN**
- 10:15 **Coffee and Poster Session**

Session 3: Yield potential

- 11:15 **Robert Furbank** Australian National University, Canberra, AU
Keynote Speaker
Improving photosynthetic performance of cereal crops for a new Green Revolution
- 11:55 **Thorsten Schnurbusch** IPK, Gatersleben, GE
Invited Speaker
Genetic Regulation of Spike Shape and Grain Number in temperate Cereal Crops
- 12:20 **NN**
- 12:40 **NN**
- 13:00 **Lunch**

Session 4: Advances in Breeding

- 14:30 **Chris-Carolin Schön** TU München, GE
Keynote Speaker
Main drivers of genomic prediction accuracy in plant populations
- 15:10 **Albrecht Melchinger** University Hohenheim, GE
Keynote Speaker
Libraries of doubled haploid lines from landraces: a new tool for seed banks, breeding and genetic research
- 15:50 **NN**
- 16:10 **Coffee Break**

Session 5: Biotechnology (I)

- 17:00 **Paul Christou** Universitat de Lleida, ES
Keynote Speaker
High carotenoid cereals: A plant biotechnology product portfolio for human and animal health and nutrition
- 17:40 **Christian Jung** University Kiel, GE
Invited Speaker
Increasing genetic variation in rapeseed: a critical assessment of random mutagenesis and CRISPR/Cas triggered mutagenesis
- 18:05 **Poster Session & GPZ Membership Assembly**
- 19:35 **Conference Dinner**

Friday, March 2, 2018

Session 5: Biotechnology (II)

- 8:30 **NN**
- 8:50 **NN**

Session 6: Future Challenges

- 9:10 **Catherine Feuillet** Bayer Crop Science division, Morrisville, North Carolina, US
Keynote Speaker
Genomics enabled breeding 2.0: incremental or disruptive?
- 9:50 **Paul Schulze-Lefert** MPIPZ, Köln, GE
Keynote Speaker
Plant microbiota assembly and functions in plant growth and health
- 10:30 **Coffee Break**
- 11:15 **Thomas Altmann** IPK, Gatersleben, GE
Invited Speaker
Plant phenotyping reveals genetic and physiological factors of plant performance and is a powerful tool for deep characterization of plant genetic resources
- 11:40 **NN**
- 12:00 **Poster Awards**
- 12:20 **Ed Buckler** USDA-ARS, Maryland, US
Keynote Speaker
Closing Lecture: On the road to Breeding 4.0: Filtering through the good, the bad, and the boring of crop quantitative genomic variation
- 13:00 **Afternoon Programme**

Legend:

- Keynote Speaker
Invited Speaker

Support



Sponsors

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We are looking forward to welcome you in Wernigerode.