1st French-German Maize Breeders School

Genetic diversity in maize breeding programs

May 23 and 24, 2017 | Stuttgart-Hohenheim, Germany

Deutsches Maiskomitee e.V. (DMK)

gpz
Gesellschaft für Pflanzenzüchtung e.V.

A.S.F.
Association des Selectionneurs Français

INRA
SCIENCE & IMPACT

UNIVERSITY OF HOHENHEIM

Scientific organizers |

Albrecht E. Melchinger, University of Hohenheim, Stuttgart

Alain Charcosset, INRA, Gif sur Yvette

Hosts |

Association des Sélectionneurs Français (A.S.F.), Paris

Deutsches Maiskomitee e.V. (DMK), Bonn

Gesellschaft für Pflanzenzüchtung e.V. (GPZ), Göttingen

Institut National de la Recherche Agronomique (INRA), Paris

University of Hohenheim, Stuttgart

Date and location |

May 23 and 24, 2017

Christkönigshaus Stuttgart,
Paracelsusstr. 89, 70599 Stuttgart

Participation fee |

A conference fee of EUR 150,00 per person will be charged, including lunch, reception with supper and refreshments during break (students and postgraduates EUR 15,00, without reception and supper). Participation is limited to a total number of 100 persons and registration will be accepted on a first order first serve basis.

Room reservation |

A limited number of rooms are available in the Christkönigshaus — Stuttgart for about 77 EUR per person/night. Please make your reservation directly at the Christkönigshaus under the heading „Deutsches Maiskomitee".
Tel.: +49 (0)711-4582823
email: christkoenigshaus@tagungshaus.net

Registration |

with the enclosed registration form by
Fax: +49(0)228 92658-20 — email: dmk@maiskomitee.de

Terms of payment |

After receipt of your registration you will receive a confirmation and the invoice. If it is not possible for you to join the event despite a registration, you are entitled to name an alternative participant or cancel the registration (free of charge until May 8). For cancellations after May 8 we charge 50 % of the participant fee. Please make your cancellation in written form.

Closing date: May 15, 2017

pictures: istockphoto.com (left, center), f1online (right)

May 23, 2017

11:00   Registration

12:15   Welcome addresses
Helmut Meßner, Deutsches Maiskomitee e. V. (DMK), Germany
Albrecht E. Melchinger, University of Hohenheim, Germany

Session 1 | Session chair: Alain Charcosset
Management and broadening of genetic diversity in breeding programs

12:30   Developing and deploying climate-resilient maize in the tropics: progress and prospects
Bodupalli Prasanna, CIMMYT, Kenya

13:00   Diversity in a global breeding program: status and possibilities for broadening
Rainer Leipert, KWS, Germany

13:30   Lessons learned and expectations for broadening the diversity in elite breeding programs
Tobias Eschholz, Maisadour, Germany

13:50   Breeding technologies help to describe and utilize genetic diversity in maize breeding
Carsten Knaak, KWS, Germany

14:10   Managing genetic diversity in an elite breeding program
Alain Murigneux, Limagrain, France

14:40   Practical aspects of introgression of landraces into elite pools: The Piemont-Pyreneen case study
Cyril Bauland, INRA, France

15:00   Coffee break

Session 2 | Session chair: Chris-Carolin Schön
Tools and approaches for broadening the genetic diversity with genetic resources

15:40   Use of Doubled Haploids in the Context of Genetic Resources Exploitation
Thomas Lübberstedt, Iowa State University, USA

16:10   Libraries of doubled-haploid lines: a new tool for harnessing landraces
Albrecht E. Melchinger, University of Hohenheim, Germany

16:30   Association mapping of agronomic and metabolic traits in DH libraries of landraces
Juliane Böhm, University of Hohenheim, Germany

16:50   Finding the optimum level of diversity for germplasm improvement
Manfred Mayer, Technical University of Munich, Germany

17:10   GBS based comparison of USDA and INRA inbred lines collections
Brigitte Gouesnard, INRA, France

17:30   DNA pooling for evaluating the originality of landraces
Stéphane Nicolas, INRA, France

18:20   Departure evening program
Point of departure: Christkönigshaus, Paracelsusstr. 89, 70599 Stuttgart

19:00–   Reception and supper with wine tasting
22.00   *"Collegium Wirtemberg", Uhlbacher Kelter Uhlbacher Str. 221, 70329 Stuttgart*

May 24, 2017

Session 3 | Session chair: Antoine Gaillard
Exploiting the genetic diversity in mapping populations and genomic prediction

08:30   Multiparental QTL mapping of biomass related traits
Adama Seye, INRA, France

09:00   Choice of individuals for the training set in genomic prediction
Laurence Moreau, INRA, France

09:30   Genomic selection in synthetics — results from a simulation study
Pascal Schopp, University of Hohenheim, Germany

09:55   Recurrent genomic selection in synthetics
Dominik Müller, University of Hohenheim, Germany

10:20   Coffee break

Session 4 | Session chair: Milena Ouzunova
Miscellaneous topics I

11:00   Comparison of different "omics" technologies for hybrid prediction
Matthias Westhues, University of Hohenheim, Germany

11:25   Identification of genes under differential selective pressure in temperate maize
Sandra Unterseer, Technical University of Munich, Germany

11:45   Assessment of genetic heterogeneity using whole-genome regression models
Christina Lehermeier, Technical University of Munich, Germany

12:10   Lunch

Session 4 | Session chair: Susanne Groh
Miscellaneous topics II

13.10   New developments in the doubled-haploid technology in maize
Willem Molenaar, University of Hohenheim, Germany

13:30   Evaluation of quality traits for biogas production in maize
Wolfgang Schipprack, University of Hohenheim, Germany

13:50   Transcriptomic dissection of heterosis manifestation in young maize roots
Frank Hochholdinger, University of Bonn, Germany

14:20   Variation for and inheritance of BYDV resistance in maize
Benjamin Stich, University of Düsseldorf, Germany

14:50   Concluding remarks
Alain Charcosset, INRA, France

15:00   End of meeting

Deutsches Maiskomitee e. V. (DMK)
Brühler Straße 9
53119 Bonn | Germany

Current topics in maize breeding

May 23 and 24, 2017 at Christkönigshaus Stuttgart

I will participate at the event.

Name ....

Organization ....

Billing address ....

....

Email address ....

☐   I am student or postgraduate (15,00 € without reception and supper. Please add relevant certificate).

Signature ....

Please return until May 15, 2017

Send Email