

How to reach us

From Stuttgart (main station) take the railway U7 or U15 (underground station) in direction „Ostfildern“ or Heumaden“ until „Ruhbank“ (Fernsehturm) then take the bus 70 in direction „Plieningen Seemühlenweg“ until the bus stop „Universität Hohenheim“.

From the Airport take the bus number 122 until the bus stop "Plieningen-Post" then change to bus lines 70 or 74.



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UNIVERSITY OF HOHENHEIM

RESEARCH CENTER OF BIOTECHNOLOGY
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Crop Genetic Diversity: From Description to Valorization

29th and 30th November 2016

Aula, Castle

University of Hohenheim Stuttgart



Crop Genetic Diversity: From Description to Valorization

An ever-increasing human population and the ongoing global climate change contributed to a renewed appreciation of crop genetic diversity for plant breeding and cultivation. This diversity plays a central role in several contexts: The improvement of major crops like maize and wheat; the breeding of minor crops to create new opportunities for breeders and farmers; and the breeding of established crops and their varieties for new uses. An efficient utilization of crop genetic diversity strongly profits from recent developments in genetics and genomics, in breeding methodology and phenotyping, as well as in computer science and data analysis. Much basic research on different aspects of genetic diversity still needs to be done. It is equally important to develop strategies for the valorization of genetic diversity to provide incentives for their conservation, scientific investigation and utilization.

At this colloquium, members of the plant and animal research groups of Hohenheim University and external partners will present ongoing research projects aimed to describe, conserve and valorize genetic diversity for breeding.

The colloquium also marks the end of the funding phase (2008 - 2016) of the **F. W. Schnell Endowed Professorship of Crop Biodiversity and Breeding Informatics** and on this occasion we will express our gratitude for the support provided by KWS SAAT SE, Stifterverband für die deutsche Wissenschaft and the University of Hohenheim.



Program

Tuesday 29th November 12:00 – 19:00

12:00 – 13:00 Arrival & Registration Foyer, Castle

13:00 Prof. Karl Schmid, University of Hohenheim
Welcome and opening address

Session I: Description of crop genetic diversity

Chair: Karl Schmid

13:15 Dr. Martin Mascher, IPK Gatersleben

Barley diversity now and 6000 years ago

13:45 Markus Stetter, University of Hohenheim

Breeding ancient crops for modern agriculture: Amaranth

14:15 apl. Prof. Bettina Haussmann, KWS SEED SE and University of Hohenheim

KWS Capacity Development Project in Peru: Aims and achievements

14:45 Juliane Böhm, University of Hohenheim

Characterization of genomic and phenotypic variation of European maize landraces

15:15 Coffee Break

Session II: Identification of useful diversity

Chair: Tobias Würschum

15:45 PD. Dr. Stefan Scholten, University of Hohenheim
Genomics and epigenomic methods in utilizing maize diversity

16:15 Patrick Thorwarth, University of Hohenheim
Using genomic prediction to characterize elite germplasm and genebank accessions

16:45 Mireia Vidal, University of Hohenheim
Contributing to an open-source breeding informatics infrastructure for the management and utilization of crop genetic diversity

17:15 Max Haupt, University of Hohenheim
Allele mining in gene banks to identify soy bean accessions for cultivation in Europe

18:00 Get Together

Wednesday 30th November 8:30 – 12:15

08:30 Prof. Dr. Stephan Dabbert, Rector, University of Hohenheim
Welcome address

Session III: Using diversity in breeding

Chair: Stefan Scholten

08:45 Dr. Léon Broers, Member of Executive board KWS SAAT SE
Quantitative approaches to trait improvement in maize breeding

09:15 Prof. Dr. Jörn Bennewitz, University of Hohenheim
Breeding tools to consolidate and improve small cattle breeds with historic migration

09:45 Alena Pfeiffer, University of Hohenheim
Breeding of soybean for Central Europe

10:15 Coffee Break

Session IV: Valorization of crop diversity

Chair: Thomas Miedaner

10:45 PD Dr. Friedrich Longin, University of Hohenheim
Back to the future – Tapping into ancient grains for food diversity

11:15 Benedikt Kogler, Verein Rheintaler Ribelmais, Salez SG, Switzerland
Improvement and Valorization of the Swiss Rheintaler Ribelmais Maize Landrace

11:45 Dr. Chris Ridout, John Innes Center, Norwich UK
Developing markets for heritage crop cultivars

12:15 Prof. Dr. Karl Schmid, Farewell