

76th Conference

24 - 26 November 2025

*Breeding for the "hidden half":
challenges and new opportunities*

Programme

Conference venue:

HBLFA Raumberg-Gumpenstein
Raumberg 38, 8952 Irdning

Monday, 24 November 2025

13:00 – 14:00 REGISTRATION

14:00 – 14:20 OPENING

14:20 – 14:50 EITZINGER Josef (Vienna, AT)

Current climate change models and their impact on crop production

14:50 – 15:30 RETZER Katarzyna (Vienna, AT)

Root system diversity and plasticity as a basis for structure-function relationships and field-adapted ideotypes

15:30 – 16:00 PIERUSCHKA Roland (Jülich, DE)

Phenotyping of the hidden half: challenges and new opportunities

16:00 – 16:30 COFFEE BREAK

16:30 – 17:00 HACKAUF Bernd (Groß Lüsewitz, DE)

Uncovering the hidden half of semidwarf rye – methods, insights, and opportunities

17:00 – 17:30 YU Peng (Freising, DE)

Beyond the root: Microbial contributions to crop growth and resilience

19:00 GALA DINNER

Tuesday, 25 November 2025

09:00 – 09:30 GOLDSTEIN Walter (Lake Geneva, US)

Breeding maize for N efficiency enhanced rhizophagy and nitrogen fixation and increased nutritional value

09:30 – 10:00 SANTANGELI Michael (Tulln, AT)

Drought response of the maize plant-soil-microbiome system

10:00 – 10:30 ABDELHAKIM Lamis (Drasov, CZ)

From shoots to roots: High-throughput phenotyping and trait analysis for crop improvement

10:30 – 11:00 COFFEE BREAK

11:00 – 11:30 MALEKIAN Babak (Vienna, AT)

Uncovering carbon flow in barley using ¹³C labelling in field: Genotypic variation in rhizodeposition and root depth

- 11:30 – 12:00** **RUNO Steve** (Nairobi, KE)
Genomics of root system architecture adaptation in sorghum under nitrogen and phosphorus deficiency
- 12:00 – 12:30** **BÜRSTMAYR Hermann** (Tulln, AT)
Are old winter wheat cultivars more drought tolerant than improved cultivars?
- 12:30 – 13:00** **JONAK Claudia** (Tulln, AT)
*Adaptive strategies to heat and drought in the climate-resilient crop *Camelina sativa**
- 13:00 – 15:00** **LUNCH BREAK**
- 15:00 – 15:30** **SEIDEL Sabine** (Vienna, AT)
Effects of N, P and K deficiency on roots at field scale – Insights from literature and observations
- 15:30 – 15:55** **KRANICH Dominik** (Adelschlag, DE)
The next level of seed breeding
- 15:55 – 16:20** **PLESTENJAK Eva** (Ljubljana, SI)
Composite populations of common bean: the hidden potential of intraspecific diversity
- 16:20 – 16:45** **BERNHART Maria** (Gleisdorf, AT)
*Adaptation of the Styrian oil pumpkin to the requirements of the bakery industry:
Development of a light green and small pumpkin seed*
- 16:45 – 17:10** **PRINZ Nina** (Freising, DE)
Fighting pests with odors: How scents deter the broad bean weevil in field and lab to safeguard seed quality

Wednesday, 26 November 2025

- 08:30 – 09:00** **BERISHA Pranvera** (Tulln, AT)
Turning routine into prediction: Using NIRS to predict grain yield in winter wheat across early and advanced generations
- 09:00 – 09:30** **FOESSEL Salomé** (Tulln, AT)
*Evaluation of yield and quality traits in moderately *Fusarium* head blight resistant durum wheat lines*
- 09:30 – 10:00** **COFFEE BREAK**

10:00 – 10:30 GRAUSGRUBER Heinrich (Tulln, AT)

Durum wheat for organic farming: Results of a multi-year field screening

10:30 – 11:00 KRISAI Andrea (Tulln, AT)

IgE reactivity to gliadin and amylase-trypsin inhibitors in wheat food allergic Japanese children