

75th Conference

25 - 27 November 2024

*75 years in the service of plant breeding –
From chi-square to genomic selection*

Programme

Conference venue:

HBLFA Raumberg-Gumpenstein

Raumberg 38, 8952 Irdning

Monday, 25 November 2024

13:00 – 14:00 REGISTRATION

14:00 – 14:20 OPENING

14:20 – 14:35 GRAUSGRUBER Heinrich (Tulln, AT)

75 years in review – don't stop the count!

14:35 – 15:00 BÜRSTMAYR Hermann (Wien, AT)

Always needed, but never finished - an overview of research on disease resistance in cereals at BOKU

15:00 – 15:25 GOHN Felix (Wien, AT)

Perspectives of Probstdorfer Saatzeit as a mid-size family enterprise

15:25 – 15:55 COFFEE BREAK

16:55 – 16:20 FRAUNDORFER Josef (Linz, AT)

75 years of plant breeding at Saatbau Linz

16:20 – 16:45 MAYER Florian (Korneuburg, AT)

Overview of breeding activities of the RWA/Lagerhaus network and future challenges for cooperative breeding programmes

16:45 – 17:10 ZECHNER Elisabeth (Zwettl, AT)

Saatzeit Edelhof since 1903: where tradition meets innovation in cereal breeding

17:10 – 17:35 TOMASICH Josef (Parndorf, AT)

Corteva's corn breeding efforts in Austria

19:00 GALA DINNER

Tuesday, 26 November 2024

- 09:00 – 09:20** **RIBARITS** Alexandra (Wien, AT)
*DurdusTools – An online genetic distance calculation tool for efficient variety testing in durum wheat (*Triticum turgidum* L. subsp. *durum* (Desf.) Husn.)*
- 09:20 – 09:40** **BUXBAUM** Michael (Windigsteig, AT)
Potato breeding at NÖS and regional production
- 09:40 – 10:00** **MOSER** Jakob (Gleisdorf, AT)
Saatzucht Gleisdorf: 1947-now-future: The development into a successful diversified breeding station
- 10:00 – 10:25** **BIRSCHITZKY** JOHANN (Probstdorf, AT)
Breeding of cereals and soybeans in Saatzucht Donau 2000 – 2024 – 2036: past – present – future
- 10:25 – 10:55** **COFFEE BREAK**
- 10:55 – 11:15** **MAHILUM** Jedi Joy (Tulln, AT)
*The long path to resistance: Breeding progress in durum wheat for *Fusarium* head blight resistance*
- 11:15 – 11:40** **LUNZER** Magdalena (Tulln, AT)
From Tillet to Tillecur – important milestones and current challenges in mans race against the black dust
- 11:40 – 12:00** **BERISHA** Pranvera (Tulln, AT)
*Genome-wide association mapping and genomic prediction of *Septoria nodorum* blotch resistance in Central European winter wheat (*Triticum aestivum* L.)*
- 12:00 – 14:00** **LUNCH BREAK**
- 14:00 – 14:25** **KORZUN** Viktor (KWS, DE)
From Chi-square to genomic selection
- 14:25 – 14:50** **MICHEL** Sebastian (Tulln, AT)
Can we teach the machine to select like a plant breeder? A recommender system approach to support early generation selection decisions based on breeder's preferences
- 14:50 – 15:15** **FOSSATI** Dario (Nyon, CH)
Genomic selection for low DON content in winter wheat
- 15:15 – 15:40** **VALARIK** Miroslav (Olomouc, CZ)
Potential of Genome Wide Association Analysis for major and orphan crop improvement

- 15:40 – 16:10** **COFFEE BREAK**
- 16:10 – 16:35** **SAFAR** Jan (Olomouc, CZ)
New insights into structure and function of VRN1 gene in cereals
- 16:35 – 17:00** **TERASAWA** Yohei (Hohenheim, DE)
Differences in the yield-related phenotype between winter wheat lines in Japan and Germany
- 17:00 – 17:25** **WARTHMAN** Norman (Seibersdorf, AT)
Mutation breeding and capacity building for enhanced global food security
- 17:25-17:45** **NÖHAMMER** Florian (Wels, AT)
HarvestMaster data collection technologies

Wednesday, 27 November 2024

- 08:30 – 08:55** **FUCHS** Martin (Wien, AT)
Breeding progress and weather dependency in corn trials: Insights from 30 years of VCU testing
- 08:55 – 09:20** **MECHTLER** Klemens (Wien, AT)
35 years of Austrian VCU testing in soybean: Breeding successes and future challenges
- 09:20 – 09:45** **FLAMM** Clemens (Wien, AT)
Development of the Austrian baking quality model of wheat in the last 30 years
- 09:45 – 10:15** **COFFEE BREAK**
- 10:15 – 10:40** **D´AMICO** Stefano (Wien, AT)
Processability and quality of einkorn from Austria
- 10:40 – 11:05** **STEINWIDDER** Andreas (Irdning-Donnersbach, AT)
Research at Raumberg-Gumpenstein
- 11:30** **VISIT TO RESEACH AT RAUMBERG-GUMPENSTEIN**
- 15.00** **EXCURSION TO ADMONT ABBEY** *(only with additional registration)*

MEETING ENDS

POSTER PRESENTATIONS (still open for submission)

Kříž Martin (Sibřina, CZ)

Stupice - 100 years of breeding of spring malting barley

Michel Sebastian (Tulln, AT)

AI meets barley - Machine learning with pedigree and marker data

Michel Sebastian (Tulln, AT)

Resistant barley, better beer - Exploring BYDV resistance in winter malting barley germplasm

Steiner Barbara (Wien, AT)

Project presentation with Saatzucht Donau: Making Durum Wheat `Climate-Fit`

Knapp Samuel (Nyon, CH)

Comparing prediction accuracy of genomic and phenotypic selection

Ribarits Alexandra (Wien, AT)

Survey of potato growers' perception of climate change and its impacts on potato production in Germany, Switzerland and Austria

Seereiter Jakob (Wien, AT)

Pre-breeding to develop regionally adapted and Wheat Dwarf Virus resistant winter wheat cultivars