

# 75<sup>th</sup> 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**    **WARTHMANN** 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*