

## 74th Plant Breeders Conference in Raumberg-Gumpenstein, Austria

November 20-22, 2023

### Preliminary programme

#### Monday, 20<sup>th</sup> November

13:00-14:00 Registration

14:00-14:20 Opening

14:20-14:50 **Maximilian POCK & Birgit GULZ-KUSCHER (Wien, AT)**

Proposals for a new EU Legislation on Plant Reproductive Material and New Genomic Techniques: Status of the ongoing discussion on EU level

14:50-15:20 **Peter RIEGLER-NURSCHER (Wieselburg, AT)**

Affordable AI driven plant phenotyping: An agricultural engineer's perspective

15:20-15:50 **Ankush PRASHAR (Newcastle-upon-Tyne, UK)**

Digital- Agriculture: (How to !!!) Turn crop sensing data into intelligence for improving production

15:50-16:15 Coffee break

16:15-16:40 **Klara PANZAROVA (Drasov, CZ)**

High-throughput phenotyping systems for controlled and natural environments

16:40-17:05 **Uros ZIBRAT (Ljubljana, SI)**

Phenotyping of winter wheat genotypes using UAV multispectral imaging

17:05-17:30 **Jules SALZINGER (Wien, AT)**

Airborne phenotyping with AI - The case of Austrian winter wheat

19:00 Gala dinner

**Tuesday, 21<sup>st</sup> November**

- 09:00-09:25 **Eva Maria MOLIN (Tulln an der Donau, AT)**  
WheatVIZ - An interdisciplinary project to accelerate the breeding of drought tolerant winter wheat via cutting-edge genomics and UAV-based phenotyping by integrating explainable AI
- 09:25-09:50 **Gudrun KINZ (Tulln an der Donau, AT)**  
Postprocessing and geopositioning of drone images
- 09:50-10:15 **Alexandra BUERGY (Avignon, FR)**  
Literal® and drone image processing for affordable phenotyping in plant breeding using Cloverfield
- 10:15-10:45 Coffee break
- 10:45-11:10 **Johann VOLLMANN (Tulln an der Donau, AT)**  
Hyperspectral sensing for digital phenotyping in soybean breeding research
- 11:10-11:35 **Carina MEYENBERG (Stuttgart, DE)**  
Feature engineering and parameter tuning - Improving phenomic prediction ability in multi-environmental durum breeding trials
- 11:35-12:00 **Katarzyna RETZER (Wien, AT)**  
Down in the underground: current approaches to study root-microbiome interactions *in situ* to enhance cereal yields
- 12:00-14:00 Lunch break
- 14:00-14:25 **Friederike TROGNITZ (Tulln/Donau, AT)**  
Microbes for a sustainable agriculture
- 14:25-14:50 **Vincent BRAUN (Stuttgart, DE)**  
SENSOJA – Sensor-assisted breeding of highyielding soybean varieties with increased tolerance to abiotic stresses. Optimization of NIRS pre-processing for phenomic prediction
- 14:50-15:15 **Josef SCHMIDT (Wettstetten, DE)**  
Introduction in new innovation "Getreideboniturfächer"
- 15:15-15:45 Coffee break

- 15:45-16:10 **Lukas GAIER (Irdning-Donnersbachtal, AT)**  
Influence of drought on cocksfoot cultivars on yield and water use efficiency
- 16:10-16:35 **Friedrich LAIDIG (Stuttgart, DE)**  
Is nitrogen use efficiency neglected in registration trials?
- 16:35-17:00 **POSTER PRESENTATIONS**

**Wednesday, 22<sup>nd</sup> November**

- 08:30-08:55 **Ludwig RAMGRABER (Herzogenaurach, DE)**  
The breeder's eye - Reality OR faire tale
- 08:55-09:20 **Franziska LÖSCHENBERGER (Korneuburg, AT)**  
30 Years of quality wheat breeding at the breeding station Probstdorf
- 09:20-09:45 **Nadine SCHREIBER & Hubert KEMPF (Moosburg an der Isar, DE)**  
Wheat breeding for organic farming: is there a need for specific organic breeding programmes?
- 09:45-10:15 Coffee break
- 10:15-10:40 **Pavel HORCICKA (Stribina, CZ)**  
Wheat yield and quality under conventional and organic farming
- 10:40-11:05 **Peter MIKO (Martonvásár, HU)**  
Effects of the management system on the performance of a winter durum diversity panel in Hungary
- 11:05-11:30 **Heinrich GRAUSGRUBER (Tulln an der Donau, AT)**  
Take home organic: Outcomes from the ECOBREED work package 2 (wheat)

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 **HBLFA**  
Raumberg-Gumpenstein  
Landwirtschaft



Funded by European Union  
Horizon 2020  
Grant agreement No 771367

