

73rd Conference

21 - 23 November 2022

Topics:

- New plant breeding techniques: myths, facts and reality
- Results from the ECOBREED project
- Free Topics

Preliminary Programme

Conference venue:

HBLFA Raumberg-Gumpenstein Raumberg 38, 8952 Irdning

co-hosted by







Monday, 21 November 2022

13:00 - 14:00 REGISTRATION

14:00 - 14:20 OPENING

14:20 – 14:50 JORASCH Petra (Brussels, BE)

Will the EU benefit from plant breeding innovations?

14:50 – 15:15 RIBARITS Alexandra (Wien, AT)

Traceability of genome-edited plants and products: opportunities and challenges

15:15 – 15:40 KAPUSI Eszter (Wien, AT)

CRISPR/Cas9 mediated genome editing in barley and wheat

15:40 - 16:10 COFFEE BREAK

16:10 – 16:35 KAWELKE Steffen (Bonn, DE)

Fungal tolerance of wheat by new breeding methods (Project PILTON)

16:35 – 17:00 HACKAUF Bernd (Groß-Lüsewitz, DE)

Development of plant breeding innovations based on natural diversity – Mission impossible?

17:00 – 17:25 MALYSHEVA-OTTO Lyudmyla (Gatersleben, DE)

Input of the new breeding technologies to the dissection of plant traits genetics and the development of new varieties

18:00 GALA DINNER

Tuesday, 22 November 2022

09:00 – 09:25 LILLEMO Morten (Ås, NO)

WheatSustain – an example of a fruitful transnational collaboration between academia and industry to develop genomics-based breeding tools for practical application in wheat breeding

09:25 – 09:50 NANNURU Vinay K.R. (Ås, NO)

Effect on prediction ability of single-trait and multi-trait genomic prediction models by incorporating genome-wide association study results to improve Fusarium disease resistance

09:50 – 10:20 MIEDANER Thomas (Hohenheim, DE) & **FLATH** Kerstin (Kleinmachnow, DE)

Looking ahead: Races and resistances to stem rust in European winter wheat and triticale

10:20 - 10:50 COFFEE BREAK

10:50 – 11:15 BÜRSTMAYR Hermann (Tulin, AT)

Mapping of a major QTL conferring resistance to wheat dwarf virus

11:15 – 11:40 EHN Magdalena (Tulln, AT)

How long does it take to develop high-performing and common bunt resistant winter wheat lines using organics-compliant methods?

11:40 – 12:05 WINDHORST Alex (Göttingen, DE)

Improving overwintering in times of climate change - A GWAS for late-frost tolerance of winter faba beans

12:05 - 14:00 LUNCH BREAK

14:00 – 14:25 LAIDIG Friedrich (Hohenheim, DE)

Improving baking quality of wheat varieties by higher protein use efficiency and stability

14:25 – 14:45 GRAUSGRUBER Heinrich (Tulln, AT)

Effect of the high grain protein gene Gpc-B1 in organic wheat

14:45 – 15:05 HEIDEN Caroline (Wien, AT)

Baking quality of organic heterogeneous material of wheat

15:05 – 15:30 EL HASSOUNI Khaoula (Hohenheim, DE)

Characterization of wheat flour proteome and identification of genomic regions associated with gluten and allergenic proteins

15:30 - 16:00 COFFEE BREAK

16:00 – 16:25 CALL Lisa (Tulln, AT) & **KRISAI** Andrea (Wien, AT)

Exploration of the immunogenic properties of amylase-trypsin inhibitors in wheat

16:25 – 16:50 AFZAL Muhammad (Hohenheim, DE)

Qualitative and agronomic characterization of large panels of emmer and einkorn cultivars

16:50 – 17:10 MÜLLER Karl-Josef (Neu Darchau, DE)

Desirable characters of triticale and winter pea for organic mixed cropping

17:10 – 17:30 HUEMER Thomas (Großraming, AT)

Naked oats in organic agriculture

Wednesday, 23 November 2022

08:30 – 08:50 KINZ Gudrun (Tulln, AT)

First steps towards resistance phenotyping using drone images

08:50 – 09:10 KOPPENSTEINER Lukas (Edelhof, AT)

Estimation of canopy parameters in wheat using radiative transfer model inversion based on an artificial neural network

09:10 – 09:30 FREITAG Stephan (Tulln, AT)

Infrared spectroscopy for rapid mycotoxin screening

09:30 – 09:50 DIEHL Svenja (Ried, AT)

Digital solutions for plant breeding

09:50 – 10:10 HUBER Johann (Freising, DE)

Pests and fungal diseases — how to save legume seed quality in times of climate change

10:10 - 10:40 COFFEE BREAK

10:40 – 11:00 BOMERS Svenja (Wien, AT)

Towards heat tolerant runner bean (Phaseolus coccineus L.) by utzilizing plant genetic resources

11:00 - 11:20 VOGL Silvia (Linz, AT)

Conserving crop wild relatives as new breeding resources

11:20 – 11:40 GAIER Lukas (Irdning-Donnersbachtal, AT)

Enhancement of cocksfoot seed production

11:40 CLOSING WORDS

MEETING ENDS

POSTER PRESENTATIONS (still open for submission)

LEBESMÜHLBACHER Jordan (Tulln, AT)

Mycorrhization of rye cultivars under conventional and organic agriculture

MAYR Christiane (Tulln, AT)

Variability of non-starch polysaccharides, enzyme activity and rheological properties in a rye diversity panel

NANNURU Vinay K.R. (Ås, NO)

Comparison of alternative breeding scenarios for Fusarium head blight resistance in wheat using stochastic simulations

RIBARITS Alexandra (Wien, AT)

Austrian variety trials in the ADAPT project: Aims and approaches

VAZIRITABAR Yazdan (Neu Darchau, DE)

Suitability of micro baking test to select for quality of organic einkorn in comparison to different parameters over three years