

72nd Conference

22 - 24 November 2021

Topics:

- Plant breeding for the 'Green Deal'
- Results from the ECOBREED and WHEATSUSTAIN projects
- Free Topics

Program

Conference venue:

Puttererseehalle
Aigen 83, 8943 Aigen im Ennstal



**BUNDESMINISTERIUM
FÜR NACHHALTIGKEIT
UND TOURISMUS**

HBLFA RAUMBERG-GUMPENSTEIN
LANDWIRTSCHAFT

Monday, 22 November 2021

13:00 – 14:00 REGISTRATION

14:00 – 14:20 OPENING

14:20 – 14:50 HÄUSLER Georg (Brussels, BE)

The European Green Deal and its farm to fork strategy

14:50 – 15:15 PURNHAGEN Kai (Bayreuth, DE)

Europe's farm to fork strategy and its commitment to biotechnology and organic farming: Conflicting or complementary goals?

15:15 – 15:40 RONCHETTI Federica (Bayreuth, DE)

The Nagoya protocol and its implementation in the EU

15:40 – 16:10 COFFEE BREAK

16:10 – 16:35 VON GEHREN Philipp (Wien, AT)

Adapting to a changing climate: first steps towards assessing a variety's climate-fitness in VCU trials

16:35 – 17:00 BÜRSTMAYR Hermann (Tulln, AT)

Rigorous phenotypic selection for Fusarium head blight resistance yields winter wheat lines combining superior high FHB resistance with good agronomic traits

17:00 – 17:25 PRASHAR Ankush (Newcastle, UK)

Integrating high throughput phenotyping with genomics - Exemplars

Tuesday, 23 November 2021

ERANET SUSCROP WHEATSUSTAIN PROJECT RESULTS SESSION

08:30 – 08:50 MORALES Laura (Tulln, AT)

Genomic prediction of Fusarium head blight resistance in the WheatSustain winter wheat training set

08:50 – 09:10 MICHEL Sebastian (Tulln, AT)

Merging genomics and transcriptomics for predicting Fusarium head blight resistance in wheat

09:10 – 09:30 LILLEMO Morten (Ås, NO)

Development of a reliable field testing methodology for Fusarium langsethiae resistance in oats confirms F. langsethiae-specific susceptibility in certain genotypes with otherwise good FHB resistance

09:30 – 09:50 SAHAMEH Shafiee (Ås, NO)

Field phenotyping - Unmanned aerial vehicle (UAV) multispectral imaging for winter wheat survival estimation

09:50 – 10:20 COFFEE BREAK

10:20 – 10:40 SHAHINNIA Fahimeh (Freising, DE)

Genome-wide association study for resistance to stripe rust in Central European winter wheat

- 10:40 – 11:00** **LIN** Min (Ås, NO)
A major QTL for yellow rust resistance on chromosome 6A shows increased frequency in recent Norwegian spring wheat cultivars and breeding lines
- 11:00 – 11:20** **MROZ** Tomasz (Ås, NO)
Historical grain yield genetic gains in Norwegian spring wheat under contrasting fertilization regimes
- 11:20 – 13:30** **LUNCH BREAK**
- H2020 ECOBREED PROJECT RESULTS SESSION & FREE TOPICS**
- 13:30 – 14:00** **GRAUSGRUBER** Heinrich (Tulln, AT)
Multi-environment trials of the ECOBREED wheat diversity panel
- 14:00 – 14:20** **BONFIGLIOLI** Luca (Viterbo, IT)
Evaluation and selection of durum wheat accessions suitable for organic production
- 14:20 – 14:40** **URBANAČIŪTĒ** Ieva (Viterbo, IT)
Salt effects on durum wheat seedling root system evaluated using high-throughput phenotyping technique
- 14:40 – 15:00** **HAGE-AHMED** Karin (Tulln, AT)
Compatibility screenings of wheat cultivars with arbuscular mycorrhizal fungi: lessons from pot and field experiments
- 15:00 – 15:30** **COFFEE BREAK**
- 15:30 – 15:50** **EHN** Magdalena (Tulln, AT)
Evaluation of marker-assisted selection for introgressed exotic common bunt resistance QTL in a back-cross population
- 15:50 – 16:00** **RITZER** Elisabeth (Tulln, AT)
Virulence patterns of eight Austrian common bunt isolate mixtures
- 16:00 – 16:10** **PFATRISCH** Kilian (Tulln, AT)
Evaluation of ECOBREED winter wheat germplasm for common bunt resistance
- 16:10 – 16:30** **HUSSAIN** Iftikhar (Vigo, ES)
*Enhanced exudation of BOA, HMBOA, HBOA and DIBOA by wheat seedlings in proximity to common purslane (*Portulaca oleracea*) and annual ryegrass (*Lolium rigidum*)*
- 16:30 – 16:50** **VOGT-KAUTE** Werner (Wartmannsroth, DE)
Farmers participatory field trials in ECOBREED project: First results
- 17:00 – 18:00** **POSTER SESSION & RECEPTION**
- 18:00** **GALA DINNER**

Wednesday, 24 November 2021

H2020 ECOBREED PROJECT RESULTS SESSION & FREE TOPICS

- 08:30 – 08:50 SINKOVIC Lovro** (Ljubljana, SI)
Phenotypic characterization of ECOBREED buckwheat genetic resources
- 08:50 – 09:10 VIEITES-ALVAREZ Yedra** (Vigo, ES)
Phenolic compounds in buckwheat: Road to agroecology
- 09:10 – 09:30 DJORDJEVIC Vuk** (Novi Sad, RS)
Identification of useful traits for organic soybean breeding in limiting and changing agro-climatic conditions
- 09:30 – 09:50 DOLNICAR Peter** (Ljubljana, SI)
Selection of advanced potato breeding lines at the Agricultural Institute of Slovenia within the ECOBREED project
- 09:50 – 10:10 BLATNIK Eva** (Ljubljana, SI)
Marker-assisted and effector selection of potato genotypes with quantitative resistance to late blight
- 10:10 – 10:40 COFFEE BREAK**
- 10:40 – 11:00 PLICH Jaroslaw** (Mlochow, PL)
Pre-breeding of potatoes suitable for organic conditions in the frame of ECOBREED project
- 11:00 – 11:20 PRIBEK Dalma** (Keszthely, HU)
Pathological and yield components analysis of potato varieties potentially applicable for organic production
- 11:20 – 11:40 HUBER Johann** (Freising, DE)
Bruchus rufimanus - a pest complicates domestic legume seed production
- 11:40 – 12:00 ZAND Eva** (Rheinau, CH)
Breeding of pole beans – a sister for corn
- 12:00 CLOSING WORDS**

MEETING ENDS

POSTER PRESENTATIONS

DALLINGER Hermann Gregor (Tulln, AT)

Phs-A1 confers pre-harvest sprouting resistance independent of phenology in European winter wheat and multiple genomes reveal structural variation

DUMALASOVA Veronika (Prague, CZ)

ECOBREED project and common bunt field inoculation trials at the Crop Research Institute

HORCICKA Pavel (Stupice, CZ)

Baking quality of wheat in organic farming

HUSSAIN Iftikhar (Vigo, ES)

Phenotypic plasticity, yield stability and signature of stable isotopes of carbon and nitrogen in safflower under saline environment

NANNURU Vinay (Ås, NO)

Genetic architecture of Fusarium head blight disease resistance and associated traits in Nordic spring wheat

PIPAN Barbara (Ljubljana, SI)

Preparation of buckwheat DNA extracts for further marker-assisted selection activities

VASILJEVIC Marjana (Novi Sad, RS)

ECOBREED participatory trials for organic soybean production in Serbia

VESKRNA Ondrej (Stupice, CZ)

Frost resistance of winter wheat in organic farming

VOJNOVIC Ana (Ljubljana, SI)

*Physiological response to drought stress in two potato (*Solanum tuberosum* L.) cultivars under greenhouse conditions*