

# 72<sup>nd</sup> Conference

22 - 24 November 2021

## Topics:

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

## Program

### Conference venue:

Online, ZOOM

[https://bokuvienna.zoom.us/webinar/register/WN\\_cVv\\_tWRxQbGXJferJZzz2A](https://bokuvienna.zoom.us/webinar/register/WN_cVv_tWRxQbGXJferJZzz2A)

co-hosted by



**ecobreed**  
IMPROVING CROPS



Funded by European Union  
Horizon 2020  
Grant agreement No 771367



**SusCrop – ERA-NET**  
Cofund on Sustainable Crop Production  
FACCEJPI



**HBLFA**  
Raumberg-Gumpenstein  
Landwirtschaft

## Monday, 22 November 2021

11:30 – 14:00 **TEST RUNS FOR PRESENTERS**

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 – 15:55 **COFFEE BREAK**

15:55 – 16:20 **VON GEHREN** Philipp (Wien, AT)

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

16:20 – 16:45 **PRASHAR** Ankush (Newcastle, UK)

*Integrating high throughput phenotyping with genomics - Exemplars*

16:45 – 17:10 **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*

## Tuesday, 23 November 2021

### **ERANET SUSCROP WHEATSUSTAIN PROJECT RESULTS SESSION**

09:00 – 09:20 **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*

09:20 – 09:40 **MORALES** Laura (Tulln, AT)

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

09:40 – 10:00 **MICHEL** Sebastian (Tulln, AT)

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

10:00 – 10:20 **NANNURU** Vinay K.R. (Ås, NO)

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

10:20 – 10:30 **COFFEE BREAK**

- 10:30 – 10:50** **SHAHINNIA** Fahimeh (Freising, DE)  
*Genome-wide association study for resistance to stripe rust in Central European winter wheat*
- 10:50 – 11:10** **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*
- 11:10 – 11:30** **SHAFIEE** Sahameh (Ås, NO)  
*Field phenotyping - Unmanned aerial vehicle (UAV) multispectral imaging for winter wheat survival estimation*
- 11:30 – 11:50** **MROZ** Tomasz (Ås, NO)  
*Historical grain yield genetic gains in Norwegian spring wheat under contrasting fertilization regimes*

**11:50 – 13:00** **LUNCH BREAK**

**H2020 ECOBREED PROJECT RESULTS SESSION & FREE TOPICS**

- 13:00 – 13:25** **GRAUSGRUBER** Heinrich (Tulln, AT)  
*Multi-environment trials of the ECOBREED wheat diversity panel*
- 13:25 – 13:45** **BONFIGLIOLI** Luca (Viterbo, IT)  
*Evaluation and selection of durum wheat accessions suitable for organic production*
- 13:45 – 14:05** **URBANA VIČIŪTĒ** Ieva (Viterbo, IT)  
*Salt effects on durum wheat seedling root system evaluated using high-throughput phenotyping technique*
- 14:05 – 14:25** **HAGE-AHMED** Karin (Tulln, AT)  
*Compatibility screenings of wheat cultivars with arbuscular mycorrhizal fungi: lessons from pot and field experiments*
- 14:25 – 14:40** **COFFEE BREAK**
- 14:40 – 15:00** **EHN** Magdalena (Tulln, AT)  
*Evaluation of marker-assisted selection for introgressed exotic common bunt resistance QTL in a back-cross population*
- 15:00 – 15:10** **PFATRISCH** Kilian (Tulln, AT)  
*Evaluation of ECOBREED winter wheat germplasm for common bunt resistance*
- 15:10 – 15:30** **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*)*
- 15:30 – 15:50** **VOGT-KAUTE** Werner (Wartmannsroth, DE)  
*Farmers participatory field trials in ECOBREED project: First results*

**Wednesday, 24 November 2021**

**H2020 ECOBREED PROJECT RESULTS SESSION & FREE TOPICS**

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

**MEETING ENDS**

## POSTER PRESENTATIONS

Posters are available at the conference webpage: <http://www.saatgut-austria.at/page.asp/-/128.htm>

**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*

**GIRARD** Anne-Laure (Tulln, AT)

*Phenotypic analysis of a European winter wheat breeding panel for resistance to Fusarium head blight*

**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*

**OBERFORSTER** Michael (Wien, AT)

*Austrian wheat varieties: Influence of plant height and dwarfing genes on susceptibility to Fusarium head blight*

**PIPAN** Barbara (Ljubljana, SI)

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

**RITZER** Elisabeth (Tulln, AT)

*Virulence patterns of eight Austrian common bunt isolate mixtures*

**TÓTH** Viola (Martonvásár, HU)

*Diversity of spelt and wheat at different sites based on their bioactive component composition*

**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*