



NÁRODNÉ POĽNOHOSPODÁRSKE
A POTRAVINÁRSKE CENTRUM



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IMPROVING CROPS



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STATE-OF-ART TOOLS AND APPROACHES IN PLANT PHENOTYPING

Advanced phenotyping online training

Monday 24th & Tuesday 25th of May 2021

Program

24th of May 2021 (Monday)

- 09:00 – 09:15 | Welcome
Pavol Hauptvogel, Klára Panzarová, and Vladimir Meglič
- 09:15 – 09:30 | ECOBREED – towards improvement in organic breeding
Vladimir Meglič, Co-ordinator of the ECOBREED project, Agricultural Institute of Slovenia
- 09:30 – 09:45 | Phenotyping of plant genotypes in the ECOBREED project and role of the NPPC
Pavol Hauptvogel, National Agricultural and Food Centre, Slovakia
- 09:45 – 10:00 | New advances and future technology steps in non-invasive phenotyping
Martin Trtílek, PSI Research Center, PSI, Czech Republic
- 10:00 – 10:50 | Crop sensing in field: phenotyping and monitoring exemplars
Ankush Prasad, University of Newcastle, the UK
- 10:50 – 11:10 | Coffee Break
- 11:10 – 12:00 | Good data management practise
Anže Županič, National Institute of Biology, Slovenia
- 12:00 – 13:00 | Data pre-processing and exploration
Uroš Žibrat, Agricultural Institute of Slovenia
- 13:00 – 14:00 | Lunch
- 14:00 – 14:50 | Characterisation of adaptive responses to single and combined stresses in Desirée
Klára Panzarová PSI Research Center, PSI, Czech Republic
- 14:50 – 15:40 | High-throughput screening approaches to identify elite varieties for improved agronomic performance under different growth conditions
Lukáš Spíchal, Centre of Region Haná for Biotechnological and Agricultural Research, Czech Advanced Technology and Research Institute, Palacký University Olomouc, Czech Republic, Czech Republic

15:40 – 16:30 | Fast and effective screening of biostimulants using high-throughput automated plant phenotyping
Mirella Sorrentino, PSI Research Center, PSI, Czech Republic

25th of May 2021 (Tuesday)

09:00 – 10:30 | State-of-art technology for plant cultivation and high-throughput phenotyping in PSI Research Center
Klára Panzarová, PSI Research Center, PSI, Czech Republic

10:30 – 10:50 | Coffee Break

10:50 – 11:40 | Phenotyping of selected plant genotypes in frame of ECOBREED project in PSI Research Center
Klára Panzarová, PSI Research Center, PSI, Czech Republic

11:40 – 12:30 | Hand-held devices for small scale non-destructive phenotyping of plants in control and field conditions
Klára Panzarová, PSI Research Center, PSI, Czech Republic

12:30 – 13:00 | Open table for discussion: Application of high-throughput phenotyping in crop studies - Burning needs and key challenges
Discussion lead by Heinrich Grausgruber

13:00 – 13:30 | Conclusions and closing remarks
Vladimir Meglic, Co-ordinator of project ECOBREED

Registration is opened by May 20th and should be done by submitting the **Registration form**.
The online workshop is free of charge.

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