

4TH AUSTRIAN PLANT PHENOTYPING NETWORK MEETING

PROGRAM

DATE: 23rd May 2024

VENUE: IMP lecture hall
Campus-Vienna-Biocenter 1
1030 Vienna, AT.

FREE REGISTRATION!

Closing 12th May



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8:00 REGISTRATION & COFFEE

9:00-9:10
Welcome - Jakub Jez, APPN/VBCF.

9:10-9:20
Opening speech - Oliver Mayer, Austrian Federal Ministry of Education, Science & Research (BMBWF).

9:20 - 9:45
EMPHASIS: The European infrastructure for plant phenotyping
+ EMPHASIS QA session - Ines Pinho & Stijn Dhondt, VIB, EMPHASIS office.

9:45 - 10:15
High-throughput phenotyping integrated with metabolomics and transcriptomics reveals a new fine-scale method to study drought stress in conifer seedlings - Muhammad Ahmad & Carlos Trujillo-Moya, BFW.

10:15 - 10:35
Understanding meristem formation by massively parallel analysis of individual sporelings - Zohar Meir, GMI.

10:35 - 10:55
Chlorophyll kinetics during *Arabidopsis* seedlings de-etiolation using iReenCAM as a screening method for new AI-predicted cytokine-like compounds - Nadia Pushkarova, Masaryk Univ.

COFFEE, POSTERS & PHENOPlant TOUR #1

11:30-11:50
Capturing high-resolution drone images for wheat classification - Gudrun Kinz, BOKU.

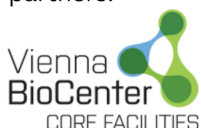
11:50 - 12:10
Yellow rust monitoring for winter wheat with remote sensing and deep learning: a case study - Lorenzo Beltrame, AIT.

12:10 - 12:30
Multimodal vision systems for plant phenotyping - Eric Stumpe, FHSTP/BOKU.

12:30 - 12:50
Data standards: FAIR play in the phenotyping game - Sebastian Seitner, VBCF.

LUNCH & POSTERS

Free registration made possible by the generous support of our partners:



14:00 - 14:20
Sensor-based and physiological phenotyping approaches to support crop improvement - Dominik Grosskinsky, AIT.

14:20 - 14:40
Multilayered phenotyping to uncover resilience to temperature and water stress in *Camelina sativa* (UNTWIST) - Claudia Jonak, AIT.

14:40 - 15:00
Advancing drought stress tolerance in Austrian winter wheat breeding: Towards integrating multi- and hyperspectral imaging approaches - Eva Maria Molin, AIT.

15:00 - 15:20
Accelerated development of multiple - stress tolerant potato (ADAPT) - Markus Teige, UniVie.

15:20 - 15:40
Satellite image super-resolution for enhanced agriculture monitoring - David Major, VRVis.

COFFEE, POSTERS & PHENOPlant TOUR #2

16:20 - 16:40
Phenotyping as an approach to resolve the conformity assessment challenge for plant biostimulant claims - Gernot Bodner, BOKU.

16:40 - 17:00
High-throughput phenotyping for nitrogen utilisation and drought stress in cereal crops - Kenny Paul, BOKU.

17:00 - 17:20
Beneficial effects of carbon from methane plasmalysis on soil conditions and plant growth - Stefan Wagner, MUL.

17:20 - 17:40
A bench-top Dark-Root device built with LEGO® bricks enables a non-invasive plant root development analysis in soil conditions mirroring nature - Madeleine Schnurer, UniVie.

17:40 - 18:00
A fully automated weighing mini-lysimeter platform to study grapevine water relations and ecophysiology under semi-controlled field environmental conditions - Jose Carlos Herrera, BOKU.

MUSIC & WINE

