

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

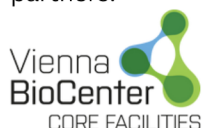
Multimodal vision systems for plant phenotyping – Eric Stumpe, FHSTP/BOKU.

12:30 – 12:50

Data standards: FAIR play in the phenotyping game – Sebastian Seither, 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 – Markus Puschenreiter, BOKU/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

