1st Austrian Plant Phenotyping Network (APPN) Meeting

Enhancing the Austrian plant phenotyping community

APPN
Austrian Plant Phenotyping Network

Program

Friday March 10 - IMP - Lecture Hall
Campus-Vienna-Biocenter 1, 1030 Vienna

08:00 - 09:00	**REGISTRATION & COFFEE**
09:00	**Jakub Jez** (VBCF) Welcome words
09:10	**Magnus Nordborg** (GMI) - KEY NOTE Lecture - *The genotype-phenotype map in Arabidopsis*
09:50	**Ulrich Schurr** (FZ Jülich) ESFRI-EMPHASIS: *European multi-environment plant phenomics and simulation infrastructure*
10:30	**Jakub Jez** APPN Initiative - *Enhancing the Austrian plant phenotyping community*
11:00 - 11:30	**COFFEE BREAK & POSTERS**
11:30	**Marcus Jansen** (LemnaTec) Phenotyping: *technology, applications and research*
11:40	**Philipp von Gillhaußen** (Phenospex) *FieldScan – A novel semi-field platform to phenotype water traits controlling plant water budget*
11:50	**Philippe Blasquez** (Phenoware) *High-throughput software for automated phenotyping*
12:00	**Jiri Fajkus** (PSI) *Tools for plant cultivation, characterization and early stress response detection*
12:10	**Erich Birngruber** (GMI) *The past, present and future of high-performance computing in life sciences*
12:30	**Kareem Elsayad** (VBCF) *Advanced optical microscopy and spectroscopy for plant phenotyping*
12:50	**Edmundo R. Sánchez Guajardo** (VBCF) *Light sheet fluorescence microscope for long-term live imaging studies of nuclear dynamics in Arabidopsis*
13:10 - 14:10	**LUNCH**
14:10	**Gernot Bodner** (BOKU) - KEY NOTE Lecture - *Looking beyond the visible: hyperspectral imaging and modelling to extend phenotyping insights into the plant root zone*
14:50	**Stefanie Wienkoop** (UniVie) *Subcellular phenotyping: Establishment of a Proteomics based approach linking quantitative subcellular protein and organelle distribution analyses of Pisum sativum cultivars*

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15:10   **Veronika Balakhonova** (CEITEC) *Non-invasive real-time imaging of chlorophyll biosynthesis during early stages of Arabidopsis deetiolation*

15:30   **Abigail Rubiato Cuyacot** (CEITEC) *Studying ethylene effects in chambers for Arabidopsis seedlings phenotype analyses under defined atmosphere*

15:50   **Stefanie Koemeda** (VBCF) *Improving the phenotyping data variability: A comparison of spatial light homogeneity of different custom designed LED light panels in a chamber-integrated, high-throughput phenotyping system and its phenotypic effects on Arabidopsis.*

16:10 - 16:40   COFFEE BREAK & POSTERS

16:40   **Pieter Clauw** (GMI) *Phenotyping growth of natural Arabidopsis thaliana accessions in Swedish autumn temperatures*

17:00   **Boris Rewald** (BOKU) *Machine learning approaches allow for determination of important root traits and enhance cultivar characterization*

17:20   **Angelika Czedik-Eysenberg** (GMI) *Automated visual phenotyping and infection prediction in the Ustilago bromivora - Brachypodium spp. pathosystem*

17:40   **Ümit Seren** (GMI) *GWA-Portal: Genome wide association studies made easy*

18:00   CONCLUDING REMARKS

WINE and live MUSIC by Doug Andrews