

**Wednesday April 12, 2023**

**12:00 Registration** – (small snacks will be served)

**Session 1 Chair: Chris Schön (TUM)**

**14:00 [T1.1] Malcolm Bennett (University of Nottingham, UK)**

Uncovering how plant roots use hormones as proxies to sense and respond to soil stresses.

**14:45 [T1.2] Erwin Grill (TU Munich, DE)**

Key regulators of efficient water use in Arabidopsis.

**15:15 [T1.3] Viktoriya Avramova (TU Munich, DE)**

Modulation of water use efficiency and carbon isotope discrimination via ABA catabolism in maize.

**15:45 Coffee break and posters (45 min)**

**Session 2 Chair: Bernhard Küster (TUM)**

**16:30 [T2.1] Jessica Prenni (Colorado State University, CO, USA)**

Periodic table of food initiative enables standardized metabolomics for global food analysis.

**17:00 [T2.2] Josef Ranner (TU Munich, DE)**

Molecular assessment of metabolome alterations in *Lotus japonicus* roots induced by arbuscular mycorrhiza.

**Session 3 Chair: Stefanie Ranf-Zipproth (Université de Fribourg)**

**17:30 [T3.1] Steven P. Briggs (UC San Diego, CA, USA)**

Maize heterosis is associated with proteome remodeling.

**18:00 [T3.2] Harvey A. Millar (University of Western Australia, AUS)**

Homeostasis of the plant proteome by control of protein synthesis and degradation.

**18:30 Mixer and Posters** – drinks and catering

**Thursday April 13, 2023**

**Session 4 Chair: Kay Schneitz (TUM)**

**09:00 [T4.1] Claudia Köhler (MPI, Potsdam-Golm, DE)**

Epigenetic basis of endosperm evolution and its consequences for angiosperm diversity.

**09:45 [T4.2] Frank Johannes (TU Munich, DE)**

Parental pericentromeric methylation status drives genome-wide functional remodeling and heterosis in epigenetic hybrids.

**10:15 Coffee break (45 min)**

**Session 5 Chair: Ralph Hückelhoven (TUM)**

**11:00 [T5.1] Remco Stam (University Kiel, DE)**

Intraspecific diversification of pathogen defence signalling in the wild tomato species *Solanum chilense*.

**11:30 [T5.2] Mary Beth Mudgett (Stanford University, CA, USA)**

Pathway discovery for novel metabolites in response to pathogen attack.

**12:00 [T5.3] Silke Robatzek (LMU Munich, DE)**

Innate immune sensing of bacteria in the vasculature.

**12:30 Lunch (60 min)**

**Session 6 Chair: Karina von der Linde (University Regensburg)**

**13:30 [T6.1] Myriam Charpentier (John Innes Centre, Norwich, UK)**

Regulation of nuclear calcium signalling in endosymbiosis.

**14:00 [T6.2] Giles Oldroyd (University of Cambridge, UK)**

Understanding and engineering nodulation.

**14:30 [T6.3] Caroline Gutjahr (MPI, Potsdam-Golm, DE)**

Transcriptional regulation of arbuscular mycorrhiza symbiosis.

**15:00 Coffee break (45 min)**

**Session 7 Chair: Arne Weinberg (LMU)**

**15:45 [T7.1] Julia Santiago (Université de Lausanne, CH)**

Cell wall recognition and patterning by a sensor complex coordinates cell wall architecture and drives pollen tube expansion.

**16:15 [T7.2] Nitzan Shabek (UC Davis, CA, USA)**

Structural plasticity in D3/MAX2 ubiquitin ligase facilitates strigolactone KAI2-mediated signaling pathways.

**Session 8 Chair: Martin Parniske (LMU)**

**16:45 [T8.1] Ulrich Z. Hammes (TU Munich, DE)**

Usually multiple acids move in and out transporters are required for amino acid supply of sink tissues and regulate plant growth and nematode development.

**17:15 [T8.2] Rodion Boikine (TU Munich, DE)**

Molecular insight into cell wall integrity signaling in Arabidopsis mediated by the receptor kinase STRUBBELIG.

**17:45 [T8.3] Finn Hartmann (University Regensburg, DE)**

Yes we CAN! – From CANDIDATE selection to characterization of novel plant peptides.

**18:15 Dinner – Bräustüberl Weihenstephan**

**Friday April 14, 2023**

**Session 9 Chair: Corina Vlot-Schuster (University Bayreuth)**

**09:00 [T9.1] Tomokazu Kawashima (University of Kentucky, KY, USA)**

Cellular dynamics of coenocytic endosperm in *Arabidopsis thaliana*.

**09:30 [T9.2] Philipp Denninger (TU Munich, DE)**

Establishment and regulation of cell polarity in pollen grains of *Arabidopsis thaliana*.

**10:00 [T9.3] Stefanie Sprunck (University Regensburg, DE)**

Interplay of key proteins during gamete interaction of flowering plants.

**10:30 Coffee break (45 min)**

**Session 10 Chair: Thomas Dresselhaus (University Regensburg, DE)**

**11:15 [T10.1] Jenny Russinova (VIB, Universitiy Gent, BE)**

Cell type-specific regulation of brassinosteroid signaling in stomatal lineage.

**11:45 [T10.2] Ana Cano-Delgado (CRAIG, Barcelona, ES)**

Brassinosteroid receptor BRL3 triggers systemic plant adaptation to elevated temperature from the phloem cells.

**12:15 [T10.4] Usha Barwale Zehr (Grow Indigo Pvt. Ltd, IN)**

Changing face of agriculture in climate uncertainty -Carbon as the new cash crop.

**13:00 Concluding remarks and end of conference**