



Munich's Forum for Plant-focused Bioinformatics

05.08.2026, 9am – 5pm

Final Program

8.30am ARRIVAL and refreshments

9.00am GENETICS AND TRANSPOSONS (Chair: Luzie Wingen)

- Carlotta Wehrkamp, Universität Zürich (*Transposable element dynamics drive rapid evolution of centromere architecture in the Avena genus*)
- Xinyi Liu, TUM (*Proteogenomics of Blumeria hordei supports RNA and protein coding innovative potential derived from transposable elements*)
- Thomas Wicker, Universität Zürich (*Transposable elements and their role in genome evolution*)

~~~ Coffee & Snacks ~~~

### 10.45am KEYNOTE TALK (Chair: Mohamad Faour)

- Boas Pucker, Universität Bonn (IZMB Plant Biotechnology and Bioinformatics) (*Addressing the functional annotation bottleneck in plant genomics*)

### 11.30am PROTEOMICS (Chair: Sophia Hein)

- Qussai Abbas, TUM (*GAP-MS: Automated validation of gene predictions using integrated mass spectrometry evidence*)
- Laura Pilgram, Universität Leipzig (*Towards a Structural Interactome of Arabidopsis thaliana: Deep Learning Reveals Proteome-Wide Interaction Networks and Homomeric Assemblies*)

### 12pm Image ANALYSIS AND MACHINE-LEARNING

Kay Schneitz, TUM (*Deciphering the diversity of the 3D cellular basis of ovule curvature*)

~~~ Lunch and Poster session ~~~

2pm TRANSCRIPTOMICS (Chair: Samara Correia de Lemos)

- Jan Maika, HHU Düsseldorf (*Integrative Transcriptomics reveal spatio-temporal developmental dynamics in barley*)
- Amit Fenn, TUM (*Dual-organism RNA-seq / WGCNA*)
- Eliana Mor, LMU (*Unravelling plant immunity at single-nucleus resolution in response to Xylella fastidiosa infection*)

~~~ Coffee & Snacks ~~~

### 3.45pm PANGENOMICS AND SEQUENCING (Chair: Benedikt Schiestl)

- Uwe Scholz, IPK Gatersleben (*How to manage, access and visualize barley pangenome data*)
- Sebastian Urzinger, Helmholtz München (*Comparative genomics of four Alternaria species using chromosome-scale long-read genome assemblies*)
- Niklas Schandry, LMU (*Nextflow pipelines for plant genome assembly, annotation and methylation calling*)

~~~ Beer, Snacks and Poster ~~~



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Conference Room iGZW
Gregor-Mendel-Str. 4
85354 Freising

POSTERS

- **Darina Bartels**, Kiel University - Improving Quantitative Disease Resistance in Oilseed Rape against *Sclerotinia*, *Alternaria*, and *Verticillium*
- **Nantu Chandra Das**, TUM - Engineering *in vivo* longevity of methionine synthase using continuous directed evolution in yeast
- **Jin Yan Khoo**, LMU - Comprehensive benchmarking of sequencing technologies for DNA methylation calling
- **Namratha Pavuluri**, TUM - Network Biology in the Pangenome Era - Exploring higher order interactions
- **Homa Zarabizadeh**, IPK (Leibniz Institute of Plant Genetics and Crop Plant Research) - Label-Free Quantitative Proteomics Reveals Stress-Responsive Molecular Signatures in Contrasting Plant Genotypes
- **Frederik Dröst**, TUM - The TUM Research Data Hub: A hybrid model for Data Stewardship
- **Sophia Hein**, TUM - Multi-omics of barley Fusarium Head Blight converge on pathogen-triggered biosynthesis of aromatic amino acid derived chemical defense compounds