

## SwissPLANT symposium - Early Career Meeting 2023

22–23 January 2023, Les Diablerets, Switzerland



### Program

#### Sunday, 22 January 2023

##### 14:00 Welcoming

- 14:15** Daniele Albertini ETH Zürich Non-cell autonomous RNA silencing restricts *Turnip Yellow Virus* (TuYV) spread in *Arabidopsis thaliana*
- 14:30** Robin E. Bautzmann U Bern Effects of biodegradable micro- and macroplastic on *Zea mays* L. growth, transcriptome and the associated root and soil microbiome
- 14:45** Kevin Bellande U Neuchâtel Conserved developmental trajectories channelling lateral root primordium morphogenesis.
- 15:00** Kyle Bender U Zürich Functional organization of plant immune receptor kinase complexes
- 15:15** Anja Boss U Bern Bacterial engineering of symbionts of entomopathogenic nematodes to enhance biological control on the western corn rootworm in maize crops
- 15:30** Joaquín Clúa U Lausanne A cytochrome-containing protein plays a dual role in phosphate starvation responses and iron homeostasis
- 15:45** Nasim Farahani Zayas U Lausanne A lignin-like polymer is deposited in the outer cell wall of the *Arabidopsis* root epidermis

##### 16:00 Coffee break/poster session

- 17:00** Natalia González Gaarslev U Lausanne Harnessing genetic interactions driving inflorescence complexity in tomato
- 17:15** Xiaoyu Hou U Zürich The *Arabidopsis* PP2Cs regulate LRX1-mediated cell wall integrity sensing
- 17:30** Lena Hyvärinen U Geneva Temperature plasticity of a seed coat apoplastic barrier promotes seed dormancy in *Arabidopsis thaliana*
- 17:45** Jonatan Isaksson U Zürich Insight into the molecular mechanisms of the AvrPm3-SvrPm3 effector protein interactions derived from the wheat powdery mildew pathogen
- 18:00** Léa Jacquier U Geneva Symplastic connections in differentiated *Arabidopsis* roots
- 18:15** Henry Janse van Rensburg U Basel A receptor protein mediates soil microbial feedbacks on *Arabidopsis*

##### 18:30 Dinner

##### 20:00 Poster session and drinks

## Monday, 23 January 2023

### 07:00 Breakfast

08:00 Session chair

08:15 Darina Koubínová U Neuchâtel Phylogenetic resolution of deep nodes of the Ophioglossaceae ferns

08:30 Aime Jaskolowski U Lausanne Cross-talk between biotic and abiotic stress: Arabidopsis response to phosphate starvation and *Botrytis cinerea* infection

08:45 Miguel Loera-Sánchez ETH Zürich Efficient monitoring of plant genetic diversity changes in multispecies meadows

09:00 Beatrice Manser U Zürich The wheat zinc finger protein TaZF acts as third component in the NLR-mediated powdery mildew effector recognition

09:15 Sandi Paulisic U Lausanne Shade induced changes of chromatin architecture in Arabidopsis thaliana

09:30 Aditya Nayak ETH Zürich Functional Variation of Naturally Evolved Plant Meiotic Axis Protein ASY1

### 09:45 Coffee break/poster session

10:15 Kinga Rutowicz U Zürich Linker histone H1 as a facilitator of transcriptomic reprogramming during diurnal rhythm.

10:30 Mayank Sharma ETH Zürich MAR-binding filament protein-1 determines the location of starch granule initiation in chloroplasts

10:45 Edouard Tourdot U Zürich Investigate the functional role of 3D chromosome folding in nuclear defense systems and molecular actors involved using reverse ChIP approach

11:00 Pallavi Vetal U Lausanne Investigating post-translational control and trafficking of Arabidopsis PHOSPHATE1 (AtPHO1)

11:15 Florent Waltz U Basel Investigating mitochondrial molecular organization across photosynthetic organisms using cryo-electron tomography

11:30 Lei Wang U Bern Immature leaves are the volatile sensing organs of maize

### 11:45 Closing/voting

12:00 Lunch