

SwissPLANT symposium 2023

23–25 January 2023, Les Diablerets, Switzerland



Program

Monday, 23 January 2023

15:45 Swiss Society of Plant Biology, General Assembly 2023

17:00 *Welcome apéro*

17:50 Welcome by Christian Fankhauser, Swiss Society of Plant Biology president

17:55 Opening remarks by Klaus Schläppi, Program Committee

Session I, chair: Thomas Boller, U Basel

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|-------|--------------------|-------------|--|
| 18:00 | Bruno Studer | ETH Zurich | The molecular basis of self-incompatibility in grasses |
| 18:20 | Ben Engel | U Basel | Exploring the molecular architecture of photosynthesis and carbon fixation with cryo-electron tomography |
| 18:40 | Thomas Badet | U Neuchâtel | Transposon activity shapes short-term evolution of a fungal pathogen |
| 19:00 | Christiane Nawrath | U Lausanne | GPAT4, GPAT6, and GPAT8 are required for suberin deposition in Arabidopsis roots with non-redundant functions to GPAT5 and GPAT7 |
- 19:20 *Dinner*, afterwards discussion at the bar

Tuesday, 24 January 2023

07:00 *Breakfast*

Session II, chair: Jurriaan de Vos, U Basel

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| 08:00 | Simon Bull | ETH Zurich | Translational research for crop improvement: A study of cassava |
| 08:20 | Charlotte Grossiord | EPFL & WSL | Adverse and mitigating impacts of warming on tree carbon cycling |
| 08:40 | Pascale Flury | U Basel | The secret lives of plant-beneficial rhizobacteria: unraveling their ecological versatility |
| 09:00 | Marie Barberon | U Geneva | Radial transport of nutrients in roots |
| 09:20 | Daniel Croll | U Neuchâtel | A thousand-genome panel retraces the global spread and climatic adaptation of a major crop pathogen |
- 09:40 *Coffee Break*

Session III, chair: Ben Engel, U Basel

- 10:10 Early Career Meeting Talk 1 Selected candidate from preceding Early Career Meeting will give a presentation
10:30 Sabine Rumpf U Basel The alpine flora in times of global change
10:50 Michael Raissig U Bern Decoding the developmental blueprint and form-function relationship of grass stomata
11:10 Lothar Kalmbach U Lausanne Cellular adaptations for long-distance transport through the phloem
11:30 Emilie Demarsy U Geneva UV-B photoprotection requires UVR8-mediated accumulation of sinapate esters in Arabidopsis
- 11:50 *Leisure time* (Lunch on your own, skiing, snowshoeing, hiking, swimming, sightseeing...)

Session IV, chair: Sabine Rumpf, U Basel

- 17:30 Mateusz Majda U Lausanne How mechanical forces control plant posture
17:50 Günter Hoch U Basel How strictly controlled is carbon storage in trees?
18:10 Yasuhiro Sato U Zürich Keystone genotype pairs increase population-level resistance to herbivory
- 18:30 *Dinner*
- 20:30 Poster session (2h, drinks will be served)

Wednesday, 25 January 2023

07:00 *Breakfast*

Session V, chair: Günter Hoch, U Basel

- 08:00 Rodrigo Reis U Bern RNA structure discovery and function in plant adaptation to elevated temperatures
08:20 Beat Keller U Zürich Molecular diversity in the resistance interactions of wheat and its fungal pathogens
08:40 Tsu-Hao Yang U Lausanne Potential roles of vascular proton pumps in touch-induced electrical signaling
09:00 Didier Reinhardt U Fribourg Does *Medicago truncatula* select its rhizobial partner based on efficient N-fixation during nodulation?
09:20 Philippe Reymond U Lausanne How Arabidopsis perceive and respond to insect eggs
09:40 Coffee Break

Session VI, chair: Pascale Flury, U Basel

- 10:10 Early Career Meeting Talk 2 Selected candidate from preceding Early Career Meeting will give a presentation
10:30 Sofia van Moorsel U Zürich Intraspecific trait variation of beech seedlings (*Fagus sylvatica*) in a common garden experiment
10:50 Christoph Ringli U Zürich PP2C-type phosphatases influence LRX/FER/RALF signaling module
11:10 Tom Walker ETH Zurich The plant metabolome as a vast repository of novel plant functional traits
11:30 Yves Poirier U Lausanne A DOMON domain-cytochrome b561 protein acts as a ferric reductase in iron homeostasis and impacts primary root growth under phosphate deficiency
- 11:50 Closing remarks