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
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  OPAT4, OPAT6, and OPAT8 are required for suberin deposition in Arabidopsis roots with non-redundant functions to OPAT5 and OPAT7
19:20  Dinner, afterwards discussion at the bar

Tuesday, 24 January 2023

07:00  Breakfast

Session II, chair: Jurriaan de Vos, U Basel
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Talks</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10</td>
<td>Early Career Meeting Talk 1</td>
<td>Selected candidate from preceding Early Career Meeting will give a presentation</td>
</tr>
<tr>
<td>10:30</td>
<td>Sabine Rumpf U Basel</td>
<td>The alpine flora in times of global change</td>
</tr>
<tr>
<td>10:50</td>
<td>Michael Raissig U Bern</td>
<td>Decoding the developmental blueprint and form-function relationship of grass stomata</td>
</tr>
<tr>
<td>11:10</td>
<td>Lothar Kalmbach U Lausanne</td>
<td>Cellular adaptations for long-distance transport through the phloem</td>
</tr>
<tr>
<td>11:30</td>
<td>Emilie Demarsy U Geneva</td>
<td>UV-B photoprotection requires UVR8-mediated accumulation of sinapate esters in Arabidopsis</td>
</tr>
</tbody>
</table>

11:50  *Leisure time* (Lunch on your own, skiing, snowshoeing, hiking, swimming, sightseeing…)

### Session IV, chair: Sabine Rumpf, U Basel

<table>
<thead>
<tr>
<th>Time</th>
<th>Talks</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Mateusz Majda U Lausanne</td>
<td>How mechanical forces control plant posture</td>
</tr>
<tr>
<td>17:50</td>
<td>Günter Hoch U Basel</td>
<td>How strictly controlled is carbon storage in trees?</td>
</tr>
<tr>
<td>18:10</td>
<td>Yasuhiro Sato U Zürich</td>
<td>Keystone genotype pairs increase population-level resistance to herbivory</td>
</tr>
</tbody>
</table>

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**

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

#### 10:10  Early Career Meeting Talk 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Talks</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30</td>
<td>Sofia van Moorsel U Zürich</td>
<td>Intraspecific trait variation of beech seedlings (<em>Fagus sylvatica</em>) in a common garden experiment</td>
</tr>
<tr>
<td>10:50</td>
<td>Christoph Ringli U Zürich</td>
<td>PP2C-type phosphatases influence LRX/FER/RALF signaling module</td>
</tr>
<tr>
<td>11:10</td>
<td>Tom Walker ETH Zurich</td>
<td>The plant metabolome as a vast repository of novel plant functional traits</td>
</tr>
<tr>
<td>11:30</td>
<td>Yves Poirier U Lausanne</td>
<td>A DOMON domain-cytochrome b561 protein acts as a ferric reductase in iron homeostasis and impacts primary root growth under phosphate deficiency</td>
</tr>
</tbody>
</table>

11:50  Closing remarks