

SwissPLANT symposium 2022

13–15 June 2022, Meiringen, Switzerland



Program

Monday, 13 June 2022

15:30 Swiss Society of Plant Biology, General Assembly 2022

17:00 Welcome apéro

17:30 Welcome by Christian Fankhauser, Swiss Society of Plant Biology president

17:35 Opening remarks by the Program Committee

Session I:

17:40	Etienne Bucher	Agroscope	Using crop genome dynamics for stress adaptation and the challenges in breeding innovation in Europe
18:00	Martina Legris	U Lausanne	Phototropins perceive light direction in the leaf to regulate blade flattening
18:20	Wojciech Wietrzynski	U Basel	Architecture and maintenance of thylakoid membranes visualized by Cryo-electron Tomography
18:40	Dinner		

Session II:

20:20	Darina Koubínová	U Neuchâtel	Simple sequence repeat (SSR) mining in the chloroplast genomes of Ophioglossaceae ferns
20:40	Thomas Wicker	U Zürich	Molecular dynamics and evolutionary history of wheat centromeres
21:00	Markus Geisler	U Fribourg	A phospho-switch provided by LRR receptor-like kinase, ALK1/QSK1/KIN7, prioritizes ABCG36/PEN3/PDR8 transport toward defense
21:20	Christian Fankhauser	U Lausanne	A combination of plasma membrane sterol biosynthesis and autophagy is required for shade-induced hypocotyl elongation.

Tuesday, 14 June 2022

07:00 Breakfast

Session III:

08:20	Ora Hazak	U Fribourg	Delving into the mechanisms of root xylem plasticity
08:40	Klaus Schlaepfli	U Basel	Exudate-microbiome interactions on Maize roots
09:00	Joelle Sasse Schläpfer	U Zürich	How dynamic is root exudation?
09:20	Celia Baroux	U Zürich	Citrullination – a novel epigenetic modification unlocking germline fate?
09:40	Coffee Break		

Session IV:

10:20	Sébastien Bruisson	U Fribourg	Volatile-mediated interaction between plant-associated beneficial microorganisms and phytopathogenic fungi
10:40	Pauline Jullien	U Bern	MET2a and MET2b DNA methyltransferases are required for trans-generational methylome stability
11:00	Charles Pouchon	U Geneva & CJBG	Phylogenomic study of the Whole Alpine Flora: When Bioinformatic Development is needed!
11:20	Luis Lopez-Molina	U Geneva	The <i>Arabidopsis</i> endosperm is a temperature-sensing tissue that implements seed thermo-inhibition through phyB and PIF3
11:40	Stefanie Ranf	U Fribourg	Mechanistic insights into plant-bacteria interactions
12:00	Leisure time (Lunch on your own, hiking, Sherlock Holmes Museum, sightseeing...)		
18:00	Poster session, with apéro		
18:40	Dinner		

Session V:

20:20	Cyril Zipfel	U Zürich	Perception of a conserved family of plant signaling peptides by the receptor kinase HSL3
20:40	Sara Simonini	U Zürich	When it's the right time to divide: conflicting parental influence guides cell cycle reactivation at fertilization
21:00	Stefan Grob	U Zürich	Paramutation in <i>Arabidopsis</i> is linked to 3D genome folding
21:20	Diana Santelia	ETH Zurich	<i>Arabidopsis</i> guard cell chloroplasts import cytosolic ATP for starch turnover and stomatal opening

Wednesday, 15 June 2022

07:00 Breakfast

Session VI:

08:20	Elia Stahl	U Lausanne	Phosphatidylcholines from <i>Pieris brassicae</i> eggs activate an immune response in <i>Arabidopsis</i>
08:40	Léa Frachon	U Zürich	Genomic local adaptation of a generalist plant species to pollinator communities, soil, and climate
09:00	Tobias Züst	U Zürich	Patterns of variation in a novel defence reveal evolutionary drivers of chemical diversification
09:20	Felix Kessler	U Neuchâtel	Atypical kinases ABC1K1 and ABC1K3 maintain plastoquinone homeostasis in the chloroplast electron transport chain
09:40	Coffee Break		

Session VII:

10:20	Kentaro Shimizu	U Zürich	Machine learning of image and transcriptome data of <i>Arabidopsis</i> and wheat polyploid plants in natura
10:40	Yamama Naciri	U Geneva & CJBG	The Sapotaceae of Madagascar: molecular genetics for conservation
11:00	Roland Kölliker	ETH Zurich	Strategies to unravel the genetic control of disease resistance in outbreeding forage crop species
11:20	Samuel Zeeman	ETH Zurich	Proteins that induce glucan phase transition in starch biosynthesis
11:40	Sebastian Soyk	U Lausanne	Loss of redundancy in a conserved developmental pathway during tomato domestication
12:00	Closing remarks		