

Current Challenges in Plant Biology 2019 (DPPS-503)

Sensory Ecology of Plants: Linking metabolic and genetic regulation to ecology and evolution

Monday 9th - Tuesday 10th December 2019, University of Helsinki Viikki campus

Program

Viikki campus, seminar room 5405, Biocentre 3 (Viikinkaari 1)

Monday 9.12. Light and temperature

09:15-09:30 **Pedro Aphalo** (University of Helsinki)

Opening of the symposium & general information

09:30-10:15 **Pedro Aphalo** (University of Helsinki)

Sensory ecology, history and definitions

10:30-11:15 **Pedro Aphalo** (University of Helsinki) & **Matt Robson** (University of Helsinki)

The light and UV environment of plants

11:15-12:30 **Roman Ulm** (University of Geneva, Switzerland)

Photoreceptors and signalling (old and new perspectives)

12:30-13:30 Lunch break

13:30-14:30 **Luis Morales** (Örebro University, Sweden)

Plant responses to UV and VIS radiation: laboratory vs. sunlight

14:30-14:45 Short break

14:45-16:00 **Ariel Novoplansky** (Ben-Gurion University of the Negev, Israel)

Future perception in plants

16:15-17:00 First day roundtable: "What world do plants sense?" and general discussion

Tuesday 10.12. Communication and integration

08:15-09:30 **Tarja Lehto** (University of Eastern Finland, Joensuu)

Plant responses to the abiotic and biotic soil environment

09:45-11:00 **Ariel Novoplansky** (Ben-Gurion University of the Negev, Israel)

Ecological implications of interplant root communication

11:15-12:30 **Jarmo Holopainen** (University of Eastern Finland, Kuopio)

Plant-plant communication through the atmosphere

12:30-13:15 Lunch break

13:15-14:30 **Daniel Calderini** (Universidad Austral de Chile)

Trade-offs in crops. Compensatory plant responses from a breeding perspective

14:30-14:45 Short break

14:45-16:00 **Ford Denison** (University of Minnesota, USA), (remote recorded video)

Implications of individual-vs-community trade-offs for plant breeding

16:15-17:00 Second day roundtable: "Profiting from plant's senses in plant production: breeding and management".

15:00 Closing of the symposium