



ASPS 2021

Adelaide – Brisbane – Canberra –
Hobart – Melbourne – Perth – Sydney

ASPS 2021



8:00-8:45

Registration

8:50

Welcome/Session 1

Yinglong Chen – Phenotyping root trait variability for improved adaptation to edaphic stress

Linh Ton – Recovering turnip mosaic virus from infected desiccated leaf material, prior to canola transformation using CRISPR/Cas13 system

Lukas Hunziker – Can we identify wheat resistance markers to *Septoria nodorum* blotch using proteomics?

Mabel Gill-Hille – Presequence translocase-associated motor (PAM) subunits in Arabidopsis are targeted to mitochondria and chloroplasts

Nathan Tivendale – How does auxin affect primary metabolism to provide energy for growth and development?

Xuyen Le – The mitochondrial pyruvate carrier (MPC) complex is one of three pyruvate-supplying pathways that sustain Arabidopsis respiratory metabolism

11:00-13:00

ASPS joint Awards session

Goldacre Award Seminar: Joanna Melonek (UWA)

Unlocking the genetic secret of cytoplasmic male sterility and fertility restoration in cereals

Jan Anderson Award Seminar: Kim Johnson (La Trobe)

Developing a passion for cell walls

FBP Best paper: Ximeng Li (Western Sydney)

Water regulation of cotton plants and its response to climate change

Education and Outreach: Kim Johnson and Monika Doblin (La Trobe)

A taste of tomorrow

RN Robertson Lecture: Christine Beveridge (UQ)

Network thinking for shoot architecture and path to impact in food production

13:00-14:30

Lunch & Posters

14:30-15:50

Session 2

Caitlin Moore – What's the flux? Using flux towers to understand photosynthesis and respiration at the ecosystem scale

Sabrina Davies – Understanding bushfire-induced seed germination

Christopher Baros – The Regulatory Evolution of C4-associated Carbonic Anhydrase in the Genus *Flaveria*

Shu Tong Liu – Nitrate-uptake restraint in *Banksia* spp. (Proteaceae) and *Melaleuca* spp. (Myrtaceae) from a severely phosphorus-impooverished environment

Bhagya Dissanayake – Proteomic analysis of bread wheat lines that differ in salt tolerance mechanisms reveals novel metabolic insights of root adaptations to salinity stress

16:20-17:40

Session 3

Monica Murcha – Insights into Complex I regulation.

Sang Huynh – The molecular mode of action for restorer-of-fertility-like proteins in plant mitochondria

Catherine Colas de Francs-Small – Targeted cleavage of mitochondrial transcripts induced by modified pentatricopeptide repeat proteins in *Arabidopsis thaliana*

Abi Ghifari – A tale of two PAPs: Proline-cleaving aminopeptidases PAP1 and PAP2 involved in plant mitochondrial and chloroplastic processing pathway

Glenda Oh – What does Alternative Oxidase do for *Arabidopsis thaliana*?



Institutional Support

La Trobe Institute for Agriculture and Food
Uni of Adelaide, Waite Research Institute,
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ANU, Research School of Biology
QUT, Centre for Agriculture and the Economy
University of Tasmania, Biological Sciences