



ASPS 2021

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



Adelaide Meeting - Thursday 25th November National Wine Centre

Day 1 Program

8:50 am	Registration (Tea and coffee available on arrival)
9:10 am	Welcome
9:15 – 10:30 am	<u>Session 1 (Chairs Dr. Scott Boden and Dr. Abdeljalil El Habti)</u> Dr. Phil Brewer - Strigolactones promote yield retention in suboptimal conditions Alison Gill - Impact of drought stress on industrial hemp (<i>Cannabis sativa</i>) Dr. Abdeljalil El Habti - Manipulation of stomata to increase yield potential in wheat Dr. Haoyu Lou - <i>Cellulose synthase-like (Csl)</i> genes control barley root growth and differentiation <u>Poster talks (5 min each)</u> Lucas Allen - Fire effects and pruning management strategies in vineyard recovery Zane Marks - The role of oxidative stress in seed priming to Improve seed germination and vigour Thi Thanh Hoai Phan - Arabidopsis Plasma membrane Intrinsic Protein AtPIP2;1 has a salinity conditional effect on seed germination
10:30 – 11:00 am	Morning tea, networking, posters
11:00 – 12:30 pm	<u>Session 2 (Chairs Assoc. Prof Jenny Mortimer and Dr. Haoyu Lou)</u> Dr. Megan Shelden - Unravelling root growth responses to salt stress in barley Dr. Daniel McKay - The pH of the Trans Golgi Network is involved in osmotic stress responses and is regulated by the ion symporter CCC1 Dr. Jiaen Qiu - Plant aquaporin mediated cation-H ₂ O transport regulation by multiple mechanisms" Dr. James Cowley - Plantago as myxospermous models with modern utility Na Sai - StomaAI (SAI): Fast and simple automated quantification of stomatal parameters Dr. Beth Loveys - The role of peer techers in improving learning outcomes in undergraduate plant science teaching
12:30 – 1:30 pm	Lunch, networking, posters



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AUSTRALIAN SOCIETY
OF PLANT SCIENTISTS
25th November 2021

Day 1 Program

1:30 – 3:45 pm

Session 3: ASPS Award Lectures (Chair Dr. Peter Ryan; Online Webinar)

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

3.45 – 4:15 pm

Afternoon tea, networking, posters

4:15 – 5:30 pm

Session 4 (Chair Prof. Matt Gilliam)

Poster talks (5 min each)

Dr. Sam Henderson - A plant endomembrane cation-chloride cotransporter VvCCC displays potassium-chloride symporter activity in *Xenopus* oocytes

Ying Meng - The role of GABA under salt and hypoxia stress

Aaron Phillips - The reference genome of *Oryza australiensis* - a wild rice with multi-stress tolerance

4:30 – 5:30 pm

EMCR Plant Science Forum (Q & A)

Panel members: Prof. Rachel Burton (UA), Dr. Allison Pearson (GRDC)

6:30 – 10:00 pm

Dinner at Yiasou George, East Terrace, Adelaide



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Adelaide Meeting - Friday 26th November National Wine Centre

Day 2 Program

8:50 am **Tea and coffee on arrival**

9:00 – 10:15 am **Session 5 (Chairs Dr. Crystal Sweetman and Lauren Philp-Dutton)**

Dr. Sunita Ramesh - Picrotoxin delineates different transport configurations for malate and γ aminobutyric acid through TaALMT1

Dr. Bo Xu - γ -Aminobutyric acid (GABA) improves drought resilience via negative regulation of ALMT9

Dr. Apriadi Situmorang - Barley tillering modification by CRISPR-Cas9-induced mutation of strigolactone biosynthesis and signalling pathway

10:00 – 10:15 am **Poster talks (5 mins each)**

Ben Hayward - Using remote sensing to explore the effects of vineyard floor management

Willem Joubert - Impacts of vineyard floor management practices on shiraz vine performance

Barry Rainbird - Role of the mitochondria in the hypersensitive response

Chelsea Matthews - Getting a foothold in Pangenomics

10:15 – 10:45 am **Morning tea, networking, posters**

10:45 – 11:30 am **Session 6 (Chairs Dr Sunita Ramesh and Dr Sam Henderson)**

Dr. Marcos Bonada - Modelling the potential vineyard management practices to counteract heatwaves

Lina Herliana - *Plantago ovata* genome assembly and annotation

Nicholas Booth - Nodulin 26, a plant aquaporin, is a non-selective monovalent cation channel in nitrogen-fixing soybean nodules

11:30 – 12:30 pm **ASPS Annual General Meeting (Online)**

12:30 – 12:40 pm **Closing Comments and Awards Ceremony**

12:40 – 1:30 pm **Lunch**



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