

Tuesday 28th November		
Time	Speaker	Title
11:30-4pm	Registration, poster submission (odd numbers please hang your posters)	
12:00-1:30pm	Student speaker and invited speaker lunch	By invitation ONLY. UTAS University Staff Club, Dobson Rd, Sandy Bay.
1:30-2:00pm	Meeting opening and Welcome to Country. Stanely Burbury Theatre, UTAS, Churchill Ave, Sandy Bay.	
Student Led Session- Sponsored by CoE Plant Success Chairs: Hanh Vo and Chris Buckley		
2:00-2:10pm	Daniela Richaud	Characterisation of Defensin-Like peptides (DEFL) family members involved in cowpea reproduction
2:10-2:20pm	Samalka Wijeweera	The role of mitochondrial 2-OGDC in salt tissue tolerance in wheat (<i>Triticum aestivum</i>)
2:20pm-2:30pm	Christopher Baros	Parsing the stepwise molecular evolution of C4-associated carbonic anhydrase in the genus <i>Flaveria</i>
2:30-2:40pm	Kellie Maybery-Reupert	Development of genomic and biotechnology resources for Rhodes grass
2:40-2:50pm	Kusumitha Shrinivasan	Mining the epigenetic secrets of the sorghum endosperm
2:50-3:00pm	Laura Steel	Comparative Genomics of Flowering Behaviour in <i>Cannabis sativa</i>
3:00-3:30pm	10 X 3 min poster teasers: Alistair Hockey, Bethan Morris, Sneha Priya Pappula Reddy, Anna Philippova, Zachary Aldiss, Tasnim Farha Bhuiyan, Nicole Thomson, Shu Tong Liu, Troy Miller, Judith Eglitis-Sexton	
3:30-4:00pm	Afternoon tea	
Drought and heat stress Chairs: Tim Brodribb and Nipuni Thantrige		
4:00-4:30pm	Brendan Choat	<i>Invited speaker:</i> Determining risks of tree mortality associated with extreme drought stress
4:30-4:45pm	Ibrahim Bourbia	Regulation of hypertension in trees
4:45-5:00pm	Kristine Crous	Limited thermal acclimation and more extreme leaf temperatures with 4°C warming in the canopies of mature tropical rainforest trees
5:00-5:15pm	Xingyu Hu	Investigating the Limiting Factors for CO ₂ Assimilation at Elevated Temperatures: A Critique and Extension of the FvCB Model
5:15-5:30pm	10 X 1 min poster teasers. Holly Beckett, Alison Gill, Beatrice Harrison Day, Marie Klein, Surbhi Kumari, Javier Lopez-Jurado, Kali Middleby, Faustino Rubio, Kritika Sharma, Camille Sicangco	
5:30-7:00pm	Welcome BBQ, Life Science Lawns	
Earth and Beyond, Plants in extreme environments. Sponsored by CoE Plants 4 Space (public session). Chairs: Jenny Mortimer and Brett Williams		
7:00-7:05pm	Brett Williams, QUT	Session opening
7:05-7:45	Gioia Massa, NASA	<i>Invited speaker:</i> Plants in Space and Space Crop Production
Discussion Panel		
7:45-8:30pm	Chair: Jenny Mortimer, UoA. Gioia Massa, NASA. Jens Hauslage, German Aerospace Center. Brett Williams, UQ. Matthew Gilliam, UoA.	

Wednesday 29th November		
Time	Speaker	Title
8:30-1:00pm	Registration	
Plant nutrition and beneficial plant-microbe interactions. Chairs: Eloise Foo and Stephanie Watts-Fawkes		
8:45-9:15am	Dugald Reid	<i>Invited speaker:</i> Genetic strategies to enhance nitrogen fixation in legumes
9:15-9:30am	Karen Velandia	Gibberellins act in specific root tissues to control infection and promote nodule and root organogenesis and interact with cytokinin
9:30-9:45am	Tess McBride	Single amino acid residues in mycorrhizal effector-like proteins influence plant protein interaction and host range
9:45-10:00am	Thi Diem Nguyen	Exploring the impact of arbuscular mycorrhizal fungi on cereal grain nutrition
10:00-10:15am	5 X 3 min poster teasers: Grace Liang, Hirotsuna Yamada, Lingling Chen, Rucha Patil, Natascha Weinberger	
10:15-10:45am	Morning tea	
Peter Goldacre Award		
10:45-11:25am	Tatiana Soares da Costa, UoA	Towards herbicides that target lysine biosynthesis
Plant development. Chairs: Chrtistine Beveridge and Jazmine Humphries		
11:25-11:46am	Chrtistine Beveridge	<i>Invited speaker:</i> Auxin-independent effects of apical dominance induce changes in phytohormones correlated with bud outgrowth
11:46am-12:01pm	Chantelle Beagley	Dissecting the origin and genetics of the mysterious Ethiopian pea, <i>P. abyssinicum</i>
12:01-12:16pm	Lily Chen	The SWEET path and sugar sensing of C4 photosynthetic grasses
12:16-12:31pm	Stephanie Conway	How is early bud growth driven at the cellular level?
12:31-12:46pm	Xiujuan Yang	MADS31 supports female germline development by repressing the post2 fertilization program in cereal ovules
1:00-1:20pm	Pick up take away lunch	
Social afternoon (tickets required)		
1:20-3:30pm	Return bus to Botanical Gardens	
1:20-3:30pm	Bus to Mt Nelson bush walk, return on foot	
1:20-3:30pm	Botanical Paint n Sip, you will be directed to Rm 105 Life Science Bld	
5-7pm	Cocktail poster session (odd numbers) Studio Theatre. <i>Please remove your posters at end of session.</i>	

ASPS 2023 sponsors



Thursday 30th November		
Time	Speaker	Title
Even number posters will be hung		
Stress sensing and signalling Chairs: Sergey Shabala and Frances Sussmilch		
8:45-9:10am	Ashwani Pareek	<i>Invited speaker:</i> Learning lessons from a coastal wild rice: dissecting the novel suit of salinity tolerance mechanisms
9:10-9:30am	Sabine Carpin	<i>Invited speaker:</i> Insight in Poplar Multistep Phosphorelay (MSP) signalling pathway
9:30-9:45am	Sebastian Garcia-Daga	Identification of two major genes controlling sodium and lithium accumulation in seeds of <i>Arabidopsis thaliana</i>
9:45-10:00am	Agepati Raghavendra	Stomatal closure by abscisic acid in <i>Arabidopsis</i> epidermis depends on guard cell cytosolic pH changes by plasma membrane and vacuolar H ⁺ -ATPases, followed by the production of reactive oxygen species
10:00-10:15am	Nipuni Thantrige	AtBAG4-mediated stress tolerance requires autophagy and interaction with the selective autophagy substrate receptor NBR1 and chaperone Hsp70
10:15-10:45am	Morning tea	
Jan Anderson Award		
10:45-11:25am	Caitin Bryt, ANU	Engineering membrane proteins for a sustainable future
Teaching, outreach and indigenous Chairs: Georgia Koerber, Beth Loveys and Megan Shelden.		
ASPS Teaching and Outreach Award		
11:25-11:50am	Robert Sharwood and Michelle Mak	Ensuring Food Security Through Innovative Food Production at Western Sydney University
11:50am-12:15pm	Kris Schaffer	awara – respecting sacred country
12:15-12:25pm	Joseph Nana Annan	Using computer technology to improve students' academic performance in plant mineral nutrition
12:25-12:35pm	Georgia Lloyd	"So what? We already knew this": Cycad processing through a munangangala lens
12:35-12:45pm	Kim Johnson	Investigation of nutritional composition and anatomy of Australian native grains
12:45-12:55pm	Beth Loveys	Utilising student reflections on learning to improve learning outcomes in STEM
Functional Plant Biology Best Paper Award		
12:55-1:00pm	Barbar Shahzad, UTAS	
1:00-2:30pm	Lunch and poster session (even numbers) Studio Theatre	
Annals of Botany Lecture		
2:30-3:10pm	Christine Faulkner, John Innes Centre	Cell-to-cell communication in times of stress
Cell walls and defence Chairs: Kim Johnson and Julian Greenwood		
3:10-3:25pm	Rachel Burton	What cell wall structures control <i>Plantago</i> seed capsule shattering?
3:25-3:40pm	Ghazanfar Khan	Phosphate starvation regulates cellulose synthesis to modify root architecture
3:40-3:55pm	Belinda Akomeah	A member of the CsIM2 gene family plays an essential role in pollen development in tomato
3:55-4:10pm	Clément Gille	Facilitative and competitive interactions between mycorrhizal and non-mycorrhizal plants in an extremely phosphorus-impooverished environment
4:10-4:25pm	Claudia Vacca	Using alternative substrates during polytunnel production to bolster broccolini resistance to clubroot
4:35-5:35pm	ASPS Annual General Meeting	
6:30-10:30pm	Conference dinner (ticket required), Tasmanian Museum and Art Gallery, Dunn Place, Hobart	

ASPS 2023 sponsors



Friday 1st December		
Time	Speaker	Title
Plant evolution and ecology Chairs: Danielle Way and Ben Halliwell		
8:30-9:00am	Greg Jordan	<i>Invited speaker:</i> Why ancestral state reconstruction matters to you (or most of you at least)
9:00-9:15am	Daniel Ortiz-Barrientos	A systems view of polygenic adaptation in an Australian wildflower
9:15-9:30am	Frances Sussmilch	Investigating the evolution of molecular mechanisms underpinning stomatal movements in land plants
9:30-9:45am	Maria Ermakova	NDH-complex mediated cyclic electron flow in bundle sheath cells enabled evolution of C4 photosynthesis
9:45-10:00am	Tiantian Pan	Adaptations in Eucalyptus to site temperature and site aridity
10:00-10:20am	Morning tea	
RN Robertson Award and discussion panel		
10:20-11:00am	Kathleen Soole, Flinders University	The nexus between respiration and stress biology in plants
Plant modelling across scales Chairs: Alex Wu and Caitlin Moore		
11:00-11:30am	Xinguang Zhu	<i>Invited speaker:</i> Multiscale modelling of photosynthesis and crop yield formation
11:30-11:45am	Nicole Fortuna	<i>Sponsored by</i> in silico <i>Plants</i> : Using the emergent properties of network topologies to predict branching phenotypes
11:45am-12:00pm	Graham Farquhar	Biomass growth rate and effects of eCO ₂ – some simple theory and preliminary observations in Eucalypts
12:00-12:15pm	Jie Liang	Estimating water use strategy under varying environmental conditions across scales from leaves to communities
12:15-12:30pm	Alexander Cheesman	Impacts of air quality on tropical forests
12:30-1:00pm	Pizza lunch	
New technologies in plant biology Chairs: Peter Waterhouse and Marina Oliva.		
1:00-1:30pm	Mathew Lewsey	<i>Invited speaker:</i> Cell transcriptional states are dynamic during germination
1:30-1:45pm	Peter Crisp	Engineering gene regulatory variation for crop improvement using DNA methylation maps
1:45-2:00pm	Suong Cu	Rapid domestication- a new approach for accelerating exploitation of the wild genomes
2:00-2:15pm	Linh Nguyen	Tomato fruit as a biofactory to produce an edible drug for treatment of multiple sclerosis
2:15-2:30pm	Tanya Skinner	A new SynBio approach to improving crop CO ₂ fixation
2:30-3:00pm	Prizes and meeting close	
<i>Please collect even number posters</i>		

ASPS 2023 sponsors

