

ASPS 2019 and Grains Satellite Meeting Schedule

12.00 - 1.30	Student and Keynote Speaker Networking Lunch (Sponsored by GRDC) Registration
1.30 – 1.45	Meeting Opening, ASPS President Kathleen Soole
Session 1	Student session Chairs: Yingxuan Ma, Ronan Broad
1.45 – 2.15	James Fazzino <i>Perspectives from a career in agriculture</i>
2.15 – 2.45	Caitlin Byrt <i>The Very Hungry Graduate</i>
2.45 – 3.00	Maketalena Aleamotu'a <i>PHI thickenings in Brassica roots – an adaptation to water stress?</i>
3.00 – 3.15	Deepak Baranwal <i>Genome-wide association analysis of stripe rust resistance among a wheat diversity panel</i>
3.15 – 3.30	Maja Arsic <i>Bio-imaging reveals foliar phosphate photosynthetic restoration and entry pathways in P-deficient barley</i>
3.30 – 4.15	Afternoon tea and Registration
Session 2	Breeding for Human Nutrition Chairs: Monika Doblin, Mike Gidley
4.15 – 4.45	Jennie Brand-Miller <i>Why carbohydrate quality trumps quantity</i>
4.45 – 5.05	Greg Tanner <i>Creation of the first ultra-low gluten barley, cv Kebari®, (<i>Hordeum vulgare</i> L.) for coeliac and gluten-intolerant populations.</i>
5.05 – 5.20	James Stangoulis <i>Nicotianamine synthase 3: a molecular marker for breeding zinc biofortified rice</i>
5.20 – 5.35	Priyakshee Borpatragohain <i>Resolving genetic components for sulphur pools in the seeds of mustard (<i>Brassica juncea</i> L.)</i>
5.35 – 5.55	Poster Teaser session 1 Mitchell Rey Toleco Joanne Ashnest Lim Chee Liew Ghazanfar Khan Cecilia Blomstedt Oliver Berkowitz Phan Thi Thanh Hoai Denise Fernando Xiaoyang Wei Joanna Kaptur Emma Gillingham
6.00 – 8.30	Welcome BBQ
8.30	Wildlife tour 1

Wednesday 27th Nov

Session 3	Reproduction and Seed Development Chairs: Tony Gendall, Dabing Zhang
8.40 – 9.00	Roger Parish <i>Climate stress and pollen development: the tapetum running hot and cold</i>
9.00 – 9.30	George Bassel (Sponsored by Dept Animal, Plant, Soil, La Trobe Uni) <i>Information processing and distributed computation in plant organs</i>
9.30 – 9.45	Elizabeth Dun <i>Long-distance flowering signals regulate shoot branching in pea</i>
9.45 – 10.00	Yong-Ling Ruan <i>Sweet initiation of seed precursor: CWIN promotes ovule formation through sugar signalling rather than provision of carbon nutrient</i>
10.00 – 10.15	Xiujuan Yang <i>Defining a germline niche during ovule development in barley</i>
10.15 – 10.45	Morning tea
Session 4	Plant Nutrition Chairs: Ricarda Jost, Peter Ryan
10.45 – 11.15	Jianping Hu (Sponsored by CoE Plant Energy Biology) <i>Peroxisomes, Photorespiration and Energy Balancing in a Dynamic Environment</i>
11.15 – 11.45	Nicolas Von Wiren <i>Impact of nitrogen signals on the phytohormonal regulation of root architectural traits</i>
11.45 – 12.00	Rainer Hoefgen <i>Control of plant sulphur nutrition through SDI proteins</i>
12.00 – 12.15	Oscar Fung <i>Investigating the Role of the Iron-Deficiency Inducible Transcription Factor OsIRO3 in Rice Using CRISPR-Cas9 Genome Editing</i>
12.15 – 12.30	Changyu Yi <i>Natural variation in the response of Arabidopsis thaliana to a low phosphorus environment</i>
12.30 – 1.30	Lunch
1.30 – 2.00	Jan Anderson Award: Monika Murcha <i>Mitochondrial machineries for import, assembly and proteolysis.</i>
Session 5	Genome Regulation Chair: Mathew Lewsey
2.00 – 2.30	Julie Law (Sponsored by CoE Translational photosynthesis) <i>Locus- and tissue-specific control of DNA methylation in Arabidopsis thaliana</i>
2.30 – 2.50	Ute Roessner <i>Tissue-specific effects of osmotic stress on the lipidome of cereal roots</i>
2.50 – 3.10	Ryan Lister <i>Dissecting plant development at single cell resolution</i>
3.10 – 3.25	Buddhini Ranawaka

	<i>Effect of histone modifications on differential expression of polyploid Nicotiana benthamiana homoeologs.</i>
3.25 – 3.40	Shivani Bhatia <i>Gene regulatory network of epidermal and sub-epidermal cell layers enriched transcription factors and their expression patterns revealed mechanisms involved in cell fate specification in A. thaliana.</i>
3.40 – 4.10	Afternoon tea
Session 6	Medicinal Agriculture Chairs: Tony Bacic, German Spangenberg
4.10 – 4.40	Jonathan Page (Sponsored by Cann group Ltd) <i>Cannabis genomics: from biochemistry to crop innovation</i>
4.40 – 5.00	Simone Rochfort <i>The Cannabis Metabolome</i>
5.00 – 5.15	Matthew Welling <i>Genetic characterisation of cannabinoid alkyl side-chain length in Cannabis</i>
5.15 – 5.30	Lee Conneely <i>Cannabis sativa glandular trichomes: Isolation, purification, and proteomics</i>
5.30 – 6.00	Poster Teaser session 2 Bo Eng Cheong Bo Xu Yanfei Zhou Ahmad Mollazadeh Taghipour Mathew G. Lewsey Francois Barbier Alban Mariette Cheka Kehelpannala James Lancaster Martino Schillaci
6.00 – 7.30	Poster Session and Drinks (Sponsored by Agriculture Victoria)
8.30	Wildlife tour

Thursday 28th Nov

Session 7	Plant Development Chairs: Eloise Foo, Mike Haydon
8.45 – 9.00	Janet Wheeler <i>An Arabidopsis Natriuretic Peptide can directly modulate Catalase 2 activity and cellular redox homeostasis</i>
9.00 – 9.30	Dan Szymanski (Sponsored by McMasters Fellowship) <i>A computational and systems-level analysis of epidermal morphogenesis</i>
9.30 – 9.50	Kimitsune Ishizaki (Sponsored by UoM Botany Foundation)

	<i>An evolutionary conserved mechanism for production of secondary meristems in land plants</i>
9.50 – 10.05	Xiang Li <i>Exploring sugar signalling by chemical biology in Arabidopsis</i>
10.05 – 10.20	Marta Peirats-Llobet <i>The ABA signalosome interacts with BRAHMA to regulate ABI4 and early seedling establishment.</i>
10.20 – 10.55	Morning tea
10.55 – 11.00	ASPS-FPB Best Paper Award
11.00 – 11.30	Teaching Award: Sigfredo Fuente <i>Application of new and emerging technologies for digital teaching and learning in plant physiology</i>
Session 8	Science Communication and Education Chairs: Janet Wheeler, Kim Johnson
11.30 – 12.00	TJ Higgins <i>Communicating about GMOs: Are we there yet?</i>
12.00 – 12.15	Beth Loveys <i>Flipping the Cellar Floor: Instructional Videos to Support Student Learning</i>
12.15 – 12.30	Thomas Shafee <i>Science outreach at the >1 million reader scale via Wikipedia</i>
12.30 – 2.00	Lunch and Poster session
Session 9	Phenotyping Technologies Chairs: Bettina Berger, Berit Ebert
2.00 – 2.30	Fabian Pfrenge (sponsored by Glycobiology society) <i>A synthetic glycan microarray enables epitope mapping of cell wall glycan-directed antibodies and characterization of biosynthetic enzymes</i>
2.30 – 2.50	Viridiana Silva <i>The power and limitations of hyperspectral reflectance: A wheat case</i>
2.50 – 3.05	Harvey Millar <i>What drives the phenotype of plant respiratory rate: mapping out the details of mitochondrial metabolic function</i>
3.05 – 3.20	Yuval Sadeh <i>Estimating Leaf Area Index from space at 3 m</i>
3.20 – 3.35	Rosemary White <i>Second harmonic imaging of developing cotton cell walls - clues in crystallinity</i>
3.35 – 4.10	Afternoon tea
4.10 – 4.40	JG Wood Award: Ros Gleadow <i>Stress, Defence and Photosynthesis are Entangled</i>
Session 10	Abiotic Stress Chairs: James Hunt, Sukhjiwan Kaur
4.40 – 5.00	Richard Trethowan <i>Pushing the boundaries of high-temperature tolerance in wheat</i>
5.00 – 5.15	Megan Shelden <i>Comparative spatial ionomics in the roots of two barley genotypes in response to salt stress</i>
5.15 – 5.30	Max Cowan

	<i>Crop wild relatives as a genetic resource for generating low-cyanide, drought-tolerant sorghum</i>
5.30 – 5.45	Brett Williams <i>Metabolic priming of the Australian resurrection plant, Tripogon loliiformis, in the hydrated state allows the early onset of long-term drought responses and desiccation tolerance</i>
6.00 – 6.45	ASPS AGM
7.00 – 10.00	Conference Dinner

Friday 29th November*

*Please note venue for Session 11: *Biotic Interactions* will be in the Szental lecture theatre at La Trobe University as this is a shared session with the Australian Plant Pathogen Society. The Grains Satellite Meeting in the afternoon will be held back in the AgriBio building.

Combined session ASPS and APPS	Szental Theatre, La Trobe University
9:00 - 9:05pm	ASPS Poster prizes (Sponsored by <i>Plants</i> and Australian Plant Phenomics Facility)
9.05 - 9.35am	Peter Goldacre Award: Simon Williams <i>Activation and signaling by plant innate immunity receptors</i>
Session 11	<i>Biotic Interactions</i> Chairs: Marilyn Anderson, Peter Solomon
9.35 - 10.05	Carl Mesarich <i>Recent progress towards understanding the <i>Venturia inaequalis</i>-apple pathosystem: a focus on fungal cell surface modifications and effector biology</i>
10.05 - 10.20	Ilona Turek <i>News from the PUB: mechanisms of ubiquitination mediated by plant U-box E3 ubiquitin ligases and their impact on immune responses</i>
10.20 - 10.35	Penelope Smith <i>Vacuolar iron transporter-like proteins import ferrous iron into the symbiosome in legumes</i>
10.35 - 10.50	Peter Ryan <i>Manipulating the root microbiome around wheat roots</i>
10.50 – 11.50	Morning Tea and return to AgriBio
11.50 – 12.00	Grains Satellite Meeting Introduction
Session 1	Chairs: Rudi Appels, Angela Juhasz
12.00 - 12.30	Mao Long (sponsored by GRDC) <i>Genomics improvement of wheat during polyploidization, domestication, and selection</i>
12.30 – 12.50	Allan Rattey <i>OMICS- Are they toys or tools for applied plant breeding?</i>
12.50 - 1.10	Tristram Coram <i>AGT - Advancing plant breeding through technology</i>

1.10 – 2.00pm	Lunch
Session 2	<i>Chairs: Mat Hayden, Josquin Tibbits</i>
2.00 - 2.30	Alex Johnson <i>Redesigning cereal grain for improved nutritional quality</i>
2.30 – 2.50	Chris Blanchard <i>How good are grains? – The potential health benefits of cereal and pulse consumption.</i>
2.50 – 3.10	Angela Juhasz <i>The gene space of the 1RS/1BL translocation in wheat reveals new networks for drought stress resistance</i>
3.10 - 3.40	Afternoon tea
3.40 - 4.00	Lynne McIntyre <i>MAGIC and pre-breeding advances in wheat</i>
4.00 – 4.20	Kate Howell <i>The wheat flour/yeast-bacteria microbiome interface in bread making to modify the aroma, crumb, nutritional and sensory properties of bread</i>
4.20 – 4.40	Michele Colgrave <i>The role of mass spectrometry in a gluten-free-barley breeding program</i>
4.40 – 4.50	<i>Closing remarks</i>