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** *Perspectives from a career in agriculture*
2.15 – 2.45	**Caitlin Byrt** *The Very Hungry Graduate*
2.45 – 3.00	**Maketalena Aleamotu'a** *PHI thickenings in Brassica roots – an adaptation to water stress?*
3.00 – 3.15	**Deepak Baranwal** *Genome-wide association analysis of stripe rust resistance among a wheat diversity panel*
3.15 – 3.30	**Maja Arsic** *Bio-imaging reveals foliar phosphate photosynthetic restoration and entry pathways in P-deficient barley*
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** *Why carbohydrate quality trumps quantity*
4.45 – 5.05	**Greg Tanner** *Creation of the first ultra-low gluten barley, cv Kebari®, (Hordeum vulgare L.) for coeliac and gluten-intolerant populations.*
5.05 – 5.20	**James Stangoulis** *Nicotianamine synthase 3: a molecular marker for breeding zinc biofortified rice*
5.20 – 5.35	**Priyakshee Borpatragohain** *Resolving genetic components for sulphur pools in the seeds of mustard (Brassica juncea L.)*
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** *Climate stress and pollen development: the tapetum running hot and cold*
9.00 – 9.30	**George Bassel (Sponsored by Dept Animal, Plant, Soil, La Trobe Uni)** *Information processing and distributed computation in plant organs*
9.30 – 9.45	**Elizabeth Dun** *Long-distance flowering signals regulate shoot branching in pea*
9.45 – 10.00	**Yong-Ling Ruan** *Sweet initiation of seed precursor: CWIN promotes ovule formation through sugar signalling rather than provision of carbon nutrient*
10.00 – 10.15	**Xiujuan Yang** *Defining a germline niche during ovule development in barley*
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)** *Peroxisomes, Photorespiration and Energy Balancing in a Dynamic Environment*
11.15 – 11.45	**Nicolas Von Wiren** *Impact of nitrogen signals on the phytohormonal regulation of root architectural traits*
11.45 – 12.00	**Rainer Hoefgen** *Control of plant sulphur nutrition through SDI proteins*
12.00 – 12.15	**Oscar Fung** *Investigating the Role of the Iron-Deficiency Inducible Transcription Factor OsIRO3 in Rice Using CRISPR-Cas9 Genome Editing*
12.15 – 12.30	**Changyu Yi** *Natural variation in the response of Arabidopsis thaliana to a low phosphorus environment*
12.30 – 1.30	**Lunch**
1.30 – 2.00	**Jan Anderson Award: Monika Murcha** *Mitochondrial machineries for import, assembly and proteolysis.*
Session 5	***Genome Regulation*** ***Chair: Mathew Lewsey***
2.00 – 2.30	**Julie Law (Sponsored by CoE Translational photosynthesis)** *Locus- and tissue-specific control of DNA methylation in Arabidopsis thaliana*
2.30 – 2.50	**Ute Roessner** *Tissue-specific effects of osmotic stress on the lipidome of cereal roots*
2.50 – 3.10	**Ryan Lister** *Dissecting plant development at single cell resolution*
3.10 – 3.25	**Buddhini Ranawaka**

	Effect of histone modifications on differential expression of polyploid Nicotiana benthamiana homoeologs.
3.25 – 3.40	**Shivani Bhatia** *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.*
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)** *Cannabis genomics: from biochemistry to crop innovation*
4.40 – 5.00	**Simone Rochfort** *The Cannabis Metabolome*
5.00 – 5.15	**Matthew Welling** *Genetic characterisation of cannabinoid alkyl side-chain length in Cannabis*
5.15 – 5.30	**Lee Conneely** *Cannabis sativa glandular trichomes: Isolation, purification, and proteomics*
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** *An Arabidopsis Natriuretic Peptide can directly modulate Catalase 2 activity and cellular redox homeostasis*
9.00 – 9.30	**Dan Szymanski (Sponsored by McMasters Fellowship)** *A computational and systems-level analysis of epidermal morphogenesis*
9.30 – 9.50	**Kimitsune Ishizaki (Sponsored by UoM Botany Foundation)**

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

	Crop wild relatives as a genetic resource for generating low-cyanide, drought-tolerant sorghum
5.30 – 5.45	**Brett Williams** *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*
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 *Plants* and Australian Plant Phenomics Facility)**
9.05 - 9.35am	**Peter Goldacre Award: Simon Williams** *Activation and signaling by plant innate immunity receptors*
Session 11	***Biotic Interactions*** ***Chairs: Marilyn Anderson, Peter Solomon***
9.35 - 10.05	**Carl Mesarich** *Recent progress towards understanding the Venturia inaequalis–apple pathosystem: a focus on fungal cell surface modifications and effector biology*
10.05 - 10.20	**Ilona Turek** *News from the PUB: mechanisms of ubiquitination mediated by plant U-box E3 ubiquitin ligases and their impact on immune responses*
10.20 - 10.35	**Penelope Smith** *Vacuolar iron transporter-like proteins import ferrous iron into the symbiosome in legumes*
10.35 - 10.50	**Peter Ryan** *Manipulating the root microbiome around wheat roots*
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)** *Genomics improvement of wheat during polyploidization, domestication, and selection*
12.30 – 12.50	**Allan Rattey** *OMICS- Are they toys or tools for applied plant breeding?*
12.50 - 1.10	**Tristam Coram** *AGT - Advancing plant breeding through technology*

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