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# Monday 15 September 2025

08:30 - 17:00	Pre-Conference Workshops (Pre-registration required)
08:30 – 17:00	National Pulse Pathology Workshop Goldsworthy
09:00 – 16:00	Pulses Genetic Gains Workshop Hamersley
14:30 – 17:00	Pretzel Workshop Boardroom
15:00 – 18:00	<b>Registration Desk Open</b> Golden Ballroom Foyer
17:30 – 19:30	Welcome Reception Exhibition Hall, Grand River Ballroom
	Centre for Crop and Disease Management  GRDC  GR
17:30 – 17:40	Global perspectives of legumes Stan Blade (India)
17:40 – 17:50	Lentils in West Australian farming systems John Young (Australia)
17:50 – 18:00	Pulse market trends Mary Raynes (Australia)







# Tuesday 16 September 2025

07:30 – 17:00	<b>Registration Desk Open</b> Golden Ballroom Foyer
08:00 - 16:00	<b>Exhibition Open</b> Exhibition Hall, Grand River Ballroom
08:00 - 08:30	Arrival Tea & Coffee Exhibition Hall, Grand River Ballroom
08:30 - 09:00	Opening Ceremony and Welcome to Country Golden Ballroom
	Welcome to Country
	Opening Remarks and Housekeeping A/Prof Lars Kamphuis
	Opening Address Dr Kaara Klepper, Broadacre Systems Executive Director
09:00 – 11:00	Session 1: Legume Genetic Resources: Tapping into Diversity Golden Ballroom
Session Chairs	Janine Croser & Ahsan Asif
09:00 – 09:30	Plenary Address: Pea breeding strategies for the agroecological and food transitions  Judith Burstin (France)
09:30 – 09:50	Invited Speaker Presentation: Genomics and artificial intelligence-based approaches to analyze 10,225 genomes for harnessing genebank diversity for chickpea improvement  Rajeev Varshney (Australia)
09:50 – 10:01	Decentrailized conservation of food legumes genetic resources in the INCREASE citizen science experiment Giulia Frascarelli (Italy)
10:01 – 10:12	Finding hidden gems: Applying phenomics and GWAS to plant genetic resource panels Clarice Coyne (United States)
10:12 – 10:23	Unlocking the genetic potential of pulses: Insights from genotyping pulse crops in the Australian Grains Genebank Luisa Teasdale (Australia)
10:23 – 10:34	Identification of key genes associated with the short-winged trait in Vicia faba L. via re-sequencing, GWAS, and high-resolution bulked segregant analysis







	Haitian Yu (China)
10:34 – 10:39	The reproductive phenology in response to photo-thermal cues is diverse in wild chickpea  Judith Lichtenzveig (Australia)
10:39 – 10:44	Genome-wide association study (GWAS) to delineate QTLs/candidate genes for cold tolerance in chickpea (Cicer arietinum L.)  Reyaz Mir (Australia)
10:44 – 10:49	Identification of anthracnose disease resistance gene in narrow-leafed lupin Gaofeng Zhou (Australia)
10:49 – 10:54	Pre-breeding to improve grain legumes: Achievements and insights Shivali Sharma (India)
11:00 – 11:30	Morning Tea, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
11:30 – 13:00	Session 2: Legume Agronomy: Economic, Environmental and Social Dimensions Golden Ballroom
Session Chairs	Ram Nair & Kristy Hobson
11:30 – 11:50	Invited Speaker Presentation: The phenotype of pulse plants in crop stands: An ecophysiological perspective Victor Sadras (Australia)
11:50 – 12:01	Sustainable rice fallow management with legumes for enhanced productivity and income for farmers Smita Sharma (India)
12:01 – 12:12	Long-term assessment of sowing time for lentil in southern Australia considering seasonal variability and farm system interactions Ashley Wallace (Australia)
12:12 – 12:23	Environmental drivers of yield variability in lentil Lia Olmedo Pico (Australia)
12:23 – 12:34	Impact of simulated grazing on recovery of narrow leaf lupin: implication for decision making in mixed farming systems Razlin Azman (Australia)
12:34 – 12:44	Arbuscular mycorrhizal fungi are an under-valued resource for improving mungbean yield Kirsty Owen (Australia)
12:44 – 12:55	Subsurface acidity: A limitation to pulses in sNSW farming systems  Mark Richards (Australia)







13:00 – 14:00	Lunch, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
13:30 – 14:00	Meet the Poster Authors Exhibition Hall, Grand River Ballroom
14:00 – 15:30	Session 3.1: Innovative Breeding Technologies: Improving Genetic Gain Golden Ballroom
Session Chairs	Tom Warkentin & Simon Michelmore
14:00 – 14:20	Invited Speaker Presentation: From less than 1K to 1.5M tonnes: The rise of the Australian lentil industry Sukhjiwan Kaur (Australia)
14:20 – 14:31	Identification and validation of genetic loci controlling earliness in lentil (Lens culinaris L.) using QTL-seq Gyan Prakash Mishra (India)
14:31 – 14:42	High-quality genome assembly and genome-wide association studies decipher the genetic basis of heat-dissipation and yield traits in mungbean Xingxing Yuan (China)
14:42 – 14:53	Field peas in Australia: Past, present and future Babu Pandey (Australia)
14:53 – 15:04	Enhancing legume breeding and food security in West Africa Vivienne Anthony (Australia)
15:04 – 15:09	Breeding field pea varieties with improved protein content Dengjin Bing (Canada)
15:09 – 15:14	Breeding lentils for heat tolerance using genomic selection Casey Flay (Australia)
15:14 – 15:19	Use of phenotypic selection to accelerate the development of Ascochyta blight resistant chickpea varieties  Ahsan Asif (Australia)
15:19 – 15:24	Performance of machine harvestable lentil (Lens culinaris Medikus) accessions in semiarid environments Outmane Bouhlal (Morocco)
15:30 – 16:00	Afternoon Tea, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
16:00 – 17:00	Session 3.2: Innovative Breeding Technologies: Improving Genetic Gain and Data Driven Legumes  Golden Ballroom
Session Chairs	Donal O'Sullivan & Sukhjiwan Kaur







16:00 – 16:20	Invited Speaker Presentation: Leveraging pangenome graphs for accurate skim-sequencing imputation to accelerate genetic gain in breeding programs  Kumar Gaurav (United Kingdom)
16:20 – 16:31	Development of genetic resources for improvement of faba (Vicia faba L.) in Western Canada Nicholas Larkan (Canada)
16:31 – 16:42	Harnessing the power of pulses: Breeding for a farming system to improve sustainability Lee Hickey (Australia)
16:42 – 16:47	Using proximal sensing data to enhance genomic prediction accuracy for seed yield in lentil Abeya Tefera (Australia)
16:47 – 16:52	Synergising high-throughput phenotyping and genomic selection to boost grain yield and other agronomic traits predictions in field pea Adnan Riaz (Australia)
16:52 – 16:57	Plot to field - Farm scale pulse research program in Alberta, Canada Jagroop Gill Kahlon (Canada)
	Day 1 Concludes







## Wednesday 17 September 2025

08:00 – 17:00	<b>Registration Desk Open</b> Golden Ballroom Foyer
08:30 - 16:00	<b>Exhibition Open</b> Exhibition Hall, Grand River Ballroom
08:30 - 09:00	Arrival Tea & Coffee Exhibition Hall, Grand River Ballroom
08:30 - 09:00	International Steering Committee Meeting Closed Door Session
09:00 – 11:00	Session 4: Legume Biology: From Ecosystems to Molecules Golden Ballroom
Session Chairs	Victor Sadras & Cassandra Walker
09:30 – 09:50	Plenary Address: From lab to field: Navigating the science, regulation, and public perception of GM Cowpea in Africa  Jerry Nboyine (Africa)
09:30 – 09:50	Invited Speaker Presentation: Molecular dynamics of a halogenated auxin in pea pod growth  Lars Ostergaard (United Kingdom)
09:50 – 10:01	Mutation of alkaloid regulator LaRAP2.7 enabled the domestication of narrow-leaved lupin Chunsheng Xiao (Australia)
10:01 – 10:12	Genome-wide association analyses identified candidate gene CaMYB114 controlling black seed coat in chickpea Hao Luo (Australia)
10:12 – 10:23	Development of an eTILLING platform for Vicia faba L. Donal O'Sullivan (United Kingdom)
10:23 – 10:34	Regulation of soybean seed weight by an underutilized component in GmSK21-GmSW19-GmSW5 module Yinghui Li (China)
10:34 – 10:39	Temporal shading impacts Vicia faba grain yield and protein concentration Louise Walker (Australia)
10:39 – 10:44	Deep roots, better crops: Investigating root and shoot traits in historical and modern pea genotypes  Dorte Bodin Dresbøll (Denmark)
10:44 – 10:49	Multi-model genome-wide association study reveals molecular markers associated with agronomic traits in a Kabuli chickpea (Cicer arietinum L.)







	under Mediterranean environments Moez Amri (Morocco)
10:49 – 10:54	Stacking for success: Enhancing chickpea yield with superior haplotypes Victor Papin (Australia)
11:00 – 11:30	Morning Tea, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
11:30 – 13:00	Session 5: From Soil to Shoot: Tackling Above and Below-Ground Pathogens Golden Ballroom
Session Chairs	Lars Kamphuis & Judith Burstin
11:30 – 11:50	Invited Speaker Presentation: Transcription regulation in Ascochyta rabiei and its impact on chickpea Ascochyta blight disease severity Ido Bar (Australia)
11:50 – 12:01	Progress in faba bean gall disease (Physoderma viciae) research on faba bean (Vicia faba) in Ethiopia: Pathogen identification, epidemiology, and management strategies  Asnakech Beyene (Ethiopia)
12:01 – 12:12	Host status and source performance of legumes reveal four interaction patterns in broomrape parasitism Rachid Mentag (Morocco)
12:12 – 12:23	Identification and characterisation of a key pathogenicity factor of Ascochyta rabiei, causal agent of Ascochyta blight in chickpea  Lars Kamphuis (Australia)
12:23 – 12:34	Improving narrow leafed lupin (Lupinus angustifolius) resistance to seed and pod Phomopsis (Diaporthe toxica)  Elaine Gough (Australia)
12:34 – 12:39	Basal sclerotinia: A significant constraint for Western Australian lupin growers Zia Hoque (Australia)
12:39 – 12:44	Uncovering hidden treasures from the Australian mung bean diversity set: Is there resistance to the root-lesion nematode Pratylenchus thornei?  Begita Adhikari (Australia)
12:44 – 12:49	Epidemiological patterns of Sclerotinia white rot in lentil crops in South Australia Mohsen Khani (Australia)
12:49 – 12:54	Field phenotyping of lentil populations reveal trait-associated loci for resistance to Ascochyta blight Bernadette Henares (Australia)
13:00 – 14:00	Lunch, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom







13:30 – 14:00	Meet the Poster Authors Exhibition Hall, Grand River Ballroom
14:00 – 15:30	Session 6: Legumes in a Changing Environment: Tackling Abiotic Stresses Golden Ballroom
Session Chairs	Ido Bar & Marisa Collins
14:00 – 14:20	Invited Speaker Presentation: Pulse performance in water-limited Australian systems: Insights from a national GxExM study Fernanda Dreccer (Australia)
14:20 – 14:31	Does early phenotyping of root and stomatal traits predict drought resilience in faba bean?  Dorte Bodin Dresbøll (Denmark)
14:31 – 14:42	Evaluating high temperature tolerance in lentil: A phenotyping strategy Audrey Delahunty (Australia)
14:42 – 14:53	Integrating phenotypic, genomic, and transcriptomic tools to evaluate heat tolerance in interspecific chickpea Sophie Duchesne (Canada)
14:53 – 15:04	Crop modelling to characterise joint heat and water stress environments for Australian chickpea Lachlan Lake (Australia)
15:04 – 15:09	Adapting to adversity: Grasspea's genetic blueprint for thriving in harsh conditions Priyanka Gupta (Morocco)
15:09 – 15:14	Designing high-yielding and drought tolerant chickpeas for Australian environments through haplotype-based breeding Rutwik Barkmukh (Australia)
15:14 – 15:19	Enhancing chickpea resilience for chilling stress using wild Cicer diversity Amanuel Bekuma (Australia)
15:19 – 15:24	Effect of acute heat stress during pod filling on key marketable traits of lentil Minhao Li (Australia)
15:30 – 16:00	Afternoon Tea, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
16:00 – 17:00	Session 7: Localised Pulse Research in Diverse Regions Golden Ballroom
Session Chairs	Rajeev Varshney & Padma Ishwarya
16:00 – 16:20	Invited Speaker Presentation: Advancements in common bean research and development in Africa: A model for pulse transformation Berhanu Amsalu Fenta (Africa)







16:20 – 16:31	PHENO-MA high throughput phenotyping platform for advancing legume breeding under climate change Moez Amri (Morocco)
16:31 – 16:42	Scaling up mungbean varieties in Asia and Africa Ramakrishnan Madhavan Nair (India)
16:42 – 16:47	Unifying molecular diversity and G×E interaction frameworks for the selection of thermo-tolerant, robust chickpea lines Teena Patel (India)
16:47 – 16:52	Genetic background of common bean seed market-classes Maria Lackmann (Germany)
16:52 – 16:57	Fast-cooking nutritious beans through innovations in common bean breeding in East Africa Renu Saradadevi (Australia)
17:00 – 17:30	The Australian Sweet Lupin – a John Gladstones' legacy Mark Sweetingham (Australia)
	Day 2 Concludes







# Thursday 18 September 2025

08:00 – 17:00	<b>Registration Desk Open</b> Golden Ballroom Foyer
08:30 – 16:00	Exhibition Open Exhibition Hall, Grand River Ballroom
08:30 - 09:00	Arrival Tea & Coffee Exhibition Hall, Grand River Ballroom
09:00 – 11:00	Session 8: On the Pulse: Industry and Research – Opportunities for Collaborations Golden Ballroom
Session Chair	Kathy La Macchia
09:00 – 09:30	Plenary Address: Pulses: The powerhouse of innovation in the global alternative protein sector  Dr Padma Ishwarya (India)
09:30 – 11:00	Panel Discussion On the Pulse: Industry and Research – Opportunities for Collaborations  Facilitator: Kathy La Macchia Panellists: TJ Higgins, Rajeev Varshney, Tom Warkentin, Peter Wilson, Neil
	Wittner
11:00 – 11:30	Morning Tea, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
11:30 – 13:00	Session 9: Legumes: From Farm to Plate Golden Ballroom
Session Chairs	Mark Seymour & Jerry Nboyine
11:30 – 11:50	Invited Speaker Presentation: Understanding the hard-to-cook (HTC) trait in beans: Molecular insights and end-use quality Sushil Dhital (Australia)
11:50 – 12:01	Use of Apulian black chickpea flour and extruded lentil flour in the production of pizza Antonella Pasqualone (Italy)
12:01 – 12:12	Impact of extraction methods on the physicochemical and functional properties of pea proteins: Comparison with commercial pea and soy proteins Anahita Sharifi (Australia)
12:12 – 12:23	Impacts of inorganic nitrogen availability on chickpea grain composition Sally Buck (Australia)







12:23 – 12:34	Aroma compound binding of legume proteins during high pressure and heat processing Regine Stockmann (Australia)
12:34 – 12:39	Enhancing the protein composition of lupin grain for optimal nutritional quality Arineh Tahmasian (Australia)
12:39 – 12:44	Increasing protein content and grain yield using multiparent derived elite lines in faba bean Fouad Maalouf (Lebanon)
12:44 – 12:49	Convenient, delicious, and nutritious value-added foods from Australian pulses John Carragher (Australia)
12:49 – 12:54	Processing dry fractionated faba bean protein concentrate using a micro- compounder Andreas Hopf (Australia)
13:00 – 14:00	Lunch, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
13:30 – 14:00	Meet the Poster Authors Exhibition Hall, Grand River Ballroom
14:00 – 15:30	Session 10: Nutritious Legumes: Meeting Consumer Needs and Market Demand Golden Ballroom
Session Chairs	Kurt Lindbeck & Shiv Agrawal
14:00 – 14:20	Invited Speaker Presentation: From seed to plate, and beyond: Improving the nutrition and sensory qualities of legume-based foods  Prof Tony Bacic (Australia)
14:20 – 14:40	Invited Speaker Presentation: Australian Pulse Proteins Cassandra Walker (Australia)
14:40 – 14:51	Pulse power: Trends and transitions in the plant based food market Theresa Pham (Australia)
14:51 – 15:02	Multi-omics analysis of common beans reveals the evolutionary dynamics of phytohemagglutinins, a global food safety concern Pei Xu (China)
15:02 – 15:13	Common beans and cowpeas as nutrient-rich alternatives to soy in corn-soy blend complementary foods for combating undernutrition in under-five Malawian children  Yankho Kaimila (Malawi)
15:13 – 15:24	Lathyrus improvement in India: Retrospect and prospect Sanjeev Gupta (India)







15:24 – 15:35	'Raising the pulse': Systems analysis of the environmental, nutritional and health benefits of pulse-enhanced foods Paola Tosi (United Kingdom)
15:35 – 16:00	Afternoon Tea, Industry Exhibition and Poster Displays Exhibition Hall, Grand River Ballroom
16:00 – 17:00	Session 11: Nitrogen Fixation Golden Ballroom
Session Chairs	Berhanu Fenta & Tony Bacic
16:00 – 16:20	Invited Speaker Presentation: Collect, Experiment, Apply, Repeat: The innovation loop driving efficient biofertilisers  Marcela Mendoza-Suarez (Denmark)
16:20 – 16:31	Exploring symbiotic nitrogen fixation efficiency across diverse mungbean germplasm utilising high-throughput phenotyping Estelle Grundy (Australia)
16:31 – 16:42	Rhizobium-mungbean symbiosis in Australia Yvette Hill (Australia)
16:42 – 16:53	Stack the odds: Haplotype selection for symbiotic nitrogen fixation in field pea Will Shafer (Australia)
16:53 – 16:58	HeadStart-Inoculation®, an alternative method to achieve effective nodulation on agricultural legumes Chris Poole (Australia)
17:00 – 17:30	Awards Ceremony & Conference Close
18:30 – 19:00	Pre-dinner Reception Golden Ballroom Foyer
19:00 – 22:00	Conference Dinner Golden Ballroom
	Sponsored by
	Murdoch University Food Futures Institute Centre for Crop and Food Innovation
	Minister Address Hon Minister Jackie Jarvis MLC







## Friday 19 September 2025

	Field Day Tours (Pre-registration required)
	Sponsored by
	AGT
08:00 – 17:00	Tour 1: AGT Field Day Tour
09:00 – 12:00	Tour 2: CBH Grain Handling Tour
09:00 – 14:00	Tour 3: Murdoch University Tour