



Australian Brassica Conference

July 21st – 23rd 2025

Grains Innovation Park

Horsham, Victoria

Scientific Program Day 1: Tuesday 22nd July 2025

Session	Time	Presenter	Title	Theme
1	8:30	Angela Van de Wouw and Steve Marcroft	Welcome	
	8:40	Sarah Clarry (AOF)	Current status of the Australian oilseeds industry in the global setting	Plenary
	9:20	Kenton Porker (CSIRO)	Canola yield frontiers: from critical periods to system synergies	Plenary
10:00 Morning tea				
2	10:30	Rohan Brill (BrillAg)	Hyper-yielding canola research 2020-2023: management factors to push canola yield beyond 5 t/ha	Agronomy
	11:00	Matthew Nelson (CSIRO)	Genetic solutions for deep sowing: Progress towards long hypocotyl canola	Genetics and breeding
	11:30	Andrew Fletcher (CSIRO)	Increasing canola establishment through an understanding of sowing depth, soil strength and sowing date responses	Agronomy
	11:45	Ash Wallace (AgVic)	Stubble trouble for canola establishment	Agronomy
	12:00	Florence Danila (ANU)	SCAN: an automated phenotyping tool for real-time capture of leaf stomatal traits in canola	Emerging technologies
	12:15	Steve Marcroft (MGP)	Why did blackleg management in canola actually work?	Crop protection
12:30 Lunch				
3	1:30	Michael Nash (UA)	Successful management of invertebrate threats to Canola – comparing contrasting seasons	Crop protection
	2:00	Chathurika Amarathunga (CSIRO)	Seeing the unseen: Field-scale detection of blackleg crown canker in canola using UAV-mounted hyperspectral sensors	Emerging technologies
	2:30	Mohamed Zakeel (CSIRO)	Hyperspectral sensing: Advancing non-invasive phenotyping for quantifying canola blackleg resistance	Emerging technologies
	2:45	Willow Liddle (Advanta)	Agronomic and financial outcomes associated with retaining seed from both Spring and Winter canola hybrids	Agronomy
	3:00	Sheng Chen (UWA)	Allohexaploid <i>Brassica</i> in canola genetics and breeding	Genetics and breeding
	3:15	Muhammad Arslan (ANU)	Engineering disease susceptibility genes for durable resistance against blackleg disease in canola	Crop protection
3:30 Afternoon tea				
4	4:00	Luke Barrett (CSIRO)	Phenotypic stability in quantitative resistance to blackleg crown canker: Exploring the roles of canola genetics, pathotype, and environment	Crop protection
	4:15	Andrew Wherrett (LivingFarm)	Improving canola establishment in the medium and low rainfall zones of Western Australia	Agronomy

	4:30	Saba Rabab (CSIRO)	Quantifying blackleg severity in canola using deep learning and a web-based scoring tool	Emerging technologies
	4:45	Irene van den Berg (AgVic)	Accelerating durable resistance: AI-augmented speed breeding for blackleg in canola	Genetics and breeding
	5:00	Finish		
6:00-11:00 Conference Dinner (Horsham Town Hall)				

Scientific Program Day 2: Wednesday 23rd July 2025

Session	Time	Presenter	Title	Theme
5	8:30	Jeremy Whish (CSIRO)	Pushing the limit of canola productivity in Sth NSW: A 20-year journey	Agronomy
	9:00	Sheng Chen (UWA)	Pre-breeding for heat and drought tolerant canola	Genetics and breeding
	9:30	Alexandre Boyer (CSIRO)	Automated canola phenology detection combining UAV imaging and deep learning	Emerging technologies
	9:45	Alec McCallum (UM)	Detection of SDHI resistance in Australian <i>Leptosphaeria maculans</i> populations	Crop protection
	10:00	Justin Kudnig (Advanta)	Agronomic and value equation outcomes associated using a treatment matrix of different canola seed sizes by plant populations by seeding depth	Agronomy
	10:15	Sally Norton (AgVic)	New genomic resources in the Australian Grains Genebank: Delivering transformative impact to the Australian <i>Brassica</i> industry	Genetics and breeding
10:30 Morning tea				
6	11:00	Angela Van de Wouw (UM)	The ins and outs of fungicide resistance	Crop protection
	11:30	Xiaoce Ma (ANU)	Improving pod shatter resistance in canola through gene editing	Genetics and breeding
	11:45	Susie Sprague (CSIRO)	Towards 2050: Future-proofing pest and disease control in canola	Crop protection
	12:00	Tao Luo (CSIRO)	Water uptake kinetics of canola seeds	Agronomy
	12:15	Sadia Majeed (ANU)	Assessing photosynthetic capacity in canola: Integrating leaf and pod photosynthesis	Physiology
	12:30	Reshma Roy (ANU)	Harnessing genetic transformation and gene-editing technologies to unlock the potential of <i>Brassica carinata</i> as a sustainable cover crop	Genetics and breeding
	12:45	Nay Chi Khim (NSW DPIRD)	Introgression and characterisation of the <i>FUL</i> gene from <i>Brassica carinata</i> for enhanced pod shatter resistance in canola (<i>B. napus</i>)	Genetics and breeding
1:00 Lunch				
	2:00	Field tour		