

Program - Monday 25 September

07:30	Registration		DAY CD	ONCOD	
08:30	Welcome to Country	All morning sessions held in Ballroom I	DAY SP	ONSOR	
08:45	Opening Remarks by Rob Wilson, President, GCIRC	Chaired by: Nick Goddard, CEO, AOF	the second second	57. 40	
09:00	Opening Addresses			BASF	
09:15	Presentation by Scott Hansen, Director General, NSW Department	artment of Primary Industries		\$11794 C.X (ALEP T. Y. COLD TO SELECTION	
09:30	Bestowal of the GCIRC Eminent Scientist Awards		We create	chemistry	
10:00	#001 PLENARY 1: The Australian canola industry <u>Nige</u> Launch of the Australian Canola Visi	on Rosemary Richards, President, AOF			
10:30	MORNING TEA Sponsored by: GRDC				
11:00	#002 PLENARY 2: Envisioning a brighter, more golden of the global rapeseed industry Ste	horizon – looking back to look forward: examining the state wart Brandt, BASF			
11:30	#003 PLENARY 3: The Innovative Oilseed: sustainably in Maurice Moloney, AgritecKnowledge	eeding and fuelling a growing world			
12:00	LUNCH Sponsored by: BASF		LUNCH Sponsored by: BASF		12:00
	Ballroom I - Genetic gain Chaired by: Rod Snowdon & Katarzyna Mikolajczyk	Ballroom II - Stand establishment Chaired by: Sally Vail & Mathew Dunn	Times on the Park - Sclerotinia Chaired by: Susan Sprague & Mark Derbyshire	Phillip Room - Evolving end use markets Chaired by: Benjamin Tiller & Nick Goddard	
13:00	KEYNOTE TALK #010 Genetic gain in Brassica breeding in India Surinder Banga	#015 Increasing the certainty of canola establishment by identifying critical temperature and moisture limits <u>Jackie Bucat</u>	#101 Effect of exogenous application of alkali compounds on the aggressiveness of Sclerotinia sclerotiorum Prabhjodh Singh Sandhu, V.N. Chetan, Pankaj Sharma, Sanjula Sharma, Surinder Singh Banga	KEYNOTE TALK #134 Global canola opportunities in the sustainable-fuel future Dennis Voznesenski	13:00
13:15		#016 Improving canola productivity by ameliorating alkaline dispersive subsoils under dryland conditions in southern New South Wales Shihab Uddin, Ehsan Tavakkoli	#102 LESION MIMIC MUTANT 1 confers basal resistance to Sclerotinia sclerotiorum in rapeseed via a salicylic acid-dependent pathway Kun Lu. Mengna Yu, Yonghai Fan, Jiana Li		13:15
13:30	#011 Genetic gain in winter oilseed rape in Europe during last three decades. Martin Frauen, Yves Devisme	#017 Dissecting water and temperature conditions influencing canola establishment in the seedbed Kenton Porker, Andrew Fletcher, Therese McBeath, John Kirkegaard, Andrew Ware	#103 Figuring out the future of foliar fungicide decisions: developing the Sclerotinia stem rot risk assessment tool Chris Manchur, Clint Jurke, Lone Buchwaldt, Erl Svendsen, Taryn Dickson, Lindsay Hoffman, Ruskin Johnson	KEYNOTE TALK #135 The impact of the U.S. transitioning toward electric vehicles on the corn and soybean complexes Nicholas Piggott	13:30 v z
13:45	S S S S S S S S S S S S S S S S S S S	#018 The long and the short of it: Genetic strategies to improve canola establishment Matthew Nelson. Jose Barrero, Mark Cmiel, Andrew Fletcher, Ian Greaves, Trijntje Hughes, Andrew Toovey, Karen Treble, Alec Zwart, John Kirkegaard, Greg Rebetzke	#104 Dissecting loci and genes controlling Sclerotinia disease resistance and their genetic and evolutionary relationship with flowering time in Brassica napus Shengyi Liu, Xiaohui Cheng, Junyan Huang, Yueying Liu, Lijiang Liu, Zetao Bai, Yuanyuan Zhang, Rong Zuo, Yizhou He, Chuanji Zhao, Jie Liu, Meili Xie, Chaobo Tong, Feng Gao, Yi Zhang, Yupo Wu, Lingyi Zeng		13:45 S S S S
14:00	#012 Optimising genetic gain in canola breeding – the model comes to life in a global canola breeding program Wallace Cowling	#019 Development of a novel high-throughput assay for root phenotypic traits of canola varieties <u>Clare Fisher</u> , Anton Wasson, Matt Nelson, Gregory Rebetzke, Shannon Dillon	#105 Genetic and molecular analysis of stem rot (Sclerotinia sclerotiorum) resistance in Brassica napus (canola type) Jacqueline Batley, Muhammad Azam Khan, Wallace A. Cowling, Surinder Singh Banga, Martin J Barbetti, Aldrin Y Cantila, Junrey C Amas, William J W Thomas, Ming Pei You, Vikrant Tyagi, Baudh Bharti, David Edwards	#136 Markets and sustainability reporting – what gets measured gets bought Maartje Sevenster	14:00 V V V V V V V V V V V V V V V V V V V
14:15	#013 Al-based models and environmental data improves genomic selection in canola <u>Iulian Gabur.</u> Lennard Ehrig, Rod Snowdon	#020 Genetic control of germination-related traits in rapeseed and the potential of genomic and phenomic selection to predict fast germinating ability Marianne Laurençon, Julie Legrix, Marie-Hélène Wagner, Didier Demilly, Sophie Rolland, Cécile Baron, Sylvie Ducournau, Anne Laperche, Nathalie Nesi	#106 Super pan-genome and RNA-Seq SNPs - GWAS to genetically characterise resistance to sclerotinia stem rot in <i>B. juncea</i> introgression lines <u>Chhaya Atri</u> , Javed Akhatar, Kusum Rana, P. S. Sandhu, Martin J Barbetti, Surinder Banga		14:15
14:30	#014 Leveraging machine learning and environmental data to enhance genomic prediction in canola Sakaria Liban, Lennard Ehrig, Iulian Gabur, Stephen Fox, Evan Gillis, Lon Rach, Janice Duguid, Jesse Mutcheson, Mike Domaratzki, Rod Snowdon, Rob Duncan	#021 Stable genetic and phenotypic correlations among early-vigour traits in field and glasshouse reveal opportunities for indirect selection in canola breeding <u>Kianoush Nikoumanesh</u> , Harsh Raman, Wallace Cowling, Li Li	#107 Epidemiology and management of Sclerotinia stem rot in Indian mustard (<i>Brassica juncea</i>) Pankaj Sharma, P D Meena, H K Sharma, N C Gupta, V V Singh, P K Rai	SPEAKER Q&A PANEL Evolving market directions for Brassica oilseed products Chaired by Benjamin Tiller, CBH Group	14:30
14:45	AFTERNOON TEA Sponsored by: GRDC		AFTERNOON TEA Sponsored by: GRDC	MONDAY PROGRAM CONTINUED ON NEXT PAGE	14:45



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	Ballroom I - Seed quality genetics Chaired by: Janetta Niemann & Liang Guo	Ballroom II - Nitrogen management Chaired by: Andrew Fletcher & Deborah Rondanini	Times on the Park - Blackleg Chaired by: Yong-Ju Huang & Gary Peng	Phillip Room - Economy & markets Chaired by: Terence Farrell & Rosemary Richards	
15:15	#022 Increasing the value of canola (<i>Brassica napus</i> L.) meal through breeding for higher protein and decreased fibre contents Steven King. Dave Charne, Chad Koscielny, Jean-Claude Pruvot, Ray Cowley, Igor Falak, Raju Jetty,	#077 Nitrogen use efficiency of oilseed rape cultivars evaluated using experimental data and simulation modelling Henning Kage, Till Rose	#108 From destruction to 7 million tonnes: how blackleg management enabled the Australian canola industry **Angela Van de Wouw, Jack Scanlan, Steve Marcroft, Alec McCallum, Sean Roberts, Leanne Forsyth,	#137 Rapeseed in the global vegetable oil system: situation, specificities and perspectives <u>Etienne Pilorgé</u>	15:15
15:30	Xiuqiang Huang, Ushan Alahakoon		Alex Idnurm	#138 Development of multiple functional utilization for promoting the rapeseed industry in China Peiwu Li, Jin Mao, Ling Cheng, Xianglong Yang, Xiaoqian Tang, Liangxiao Zhang, Qi Zhang	15:30
15:45	#023 The effect of copy number variation of fatty acid synthesis genes on Brassica oil profiles Shima Mahmoudi. Annaliese S. Mason, Peter Dörmann	#078 Modeling as a tool for identifying root architecture traits defining root systems adapted to a nitrogen-limited environment <u>Céline Richard-Molard</u> , Christophe Lecarpentier, Loïc Pagès	#109 How changed farming practices changed blackleg disease expression causing additional yield losses Steve Marcroft, Angela Van de Wouw, Susie Sprague, Andrew Ware, Kurt Lindbeck, Andrew Wherret, Andrea Hills, Nick Perndt, Alec McCallum	#139 Forecasting the future of oilseed rape co-products: Traditional breeding and modified genetics trade-offs Zdenek Linhart	υ Σ
16:00	#024 Long-read sequencing uncovers genome structural variations associated with protein content in Brassica napus Harmeet Singh Chawla, Mohamed S Youssef, Sean Walkowiak, Robert W Duncan	#079 Improved ammonium utilization and greater root area growth are favoured in hybrid canola under intensive mono-cropping Raju Soolanayakanahally. YI Hu, Shankar Pahari, Robert Guy	#110 From genes to field: advances in breeding and management of blackleg disease in Poland <u>Justyna Szwarc</u> , Ewa Starosta, Janetta Niemann	#140 Unlocking the biophysical properties of rapeseed storage proteins: Tailoring innovative strategies for sustainable protein production Marcos Hamborg-Vinde, Kasper Engholm-Keller, Lars Boyens-Thiele, Alexander Kai Buell, Marianne Nissen Lund, Poul Erik Jensen	0 0 0 0 0
16:15	#025 Seed oil content QTL mapping and gene cloning in rapeseed Liang Guo	#080 Intercropping winter oilseed rape with frost- sensitive faba bean have the potential to reduce fertilisation rate and weed pressure Iman Raj Chongtham, Georg Carlsson	#111 Factors affecting expression of crown canker (Leptosphaeria maculans) in canola: implications for breeding and management Susan Sprague, Angela Van de Wouw, Steve Marcroft, Luke Barrett	#141 Present status and future prospects of rapeseed- mustard in India <u>Dhiraj Singh</u>	16:15 U U U
16:30	#026 Uncovering novel genetic diversity in canola seed traits through haploid mutagenesis and proteogenomic sequencing Sateesh Kagale, Morgan W. Kirzinger, Andrea T. Todd, Sarika Saini, Magda Konopka, Victor Llaca, Kevin Fengler, Kevin Koh, Venkat Bandi, Sampath Perumal, HaiYing Yuan, Tancey Melchkart, Tryston Orr, Yasmina Bekkaoui, Christine Sidebottom, David Konkin, Chad Matsalla, Isobel Parkin, Andrew Sharpe, Carl Gutwin, Dave Charne, Ushan Alahakoon, Daoquan Xiang, Alison M. R. Ferrie, Raju Jetty	#081 Increased N availability in winter oilseed rape by intercropping annual frost sensitive legume crops Ann-Charlotte Wallenhammar, Kerstin Andersson, Per Modig, Per Ståhl, Henrik Edin, Eva Edin, Ola Lundin, Lena Engström	#112 Leptosphaeria biglobosa inhibits the production of sirodesmin PL by L. maculans James Fortune, Evren Bingol, Aiming Qi, Daniel Baker, Faye Ritchie, Chinthani Karandeni Dewage, Bruce Fitt, Yong-Ju Huang	#142 Russian rapeseed evolution and economic perspectives Sergey Tuchin	4 16:30 £
16:45	#027 Export of defensive glucosinolates is key for their accumulation in seeds Niels Christian Sanden, Deyang Xu, Line Lykke Hansen, Zeinu Mussa Belew, Svend Roesen Madsen, Lasse Meyer, Morten Egevang Jørgensen, Pascal Hunziker, Dorottya Veres, Christoph Crocoll, Alexander Schulz, Hussam Hassan Nour-Eldin, Barbara Ann Halkier	#082 Camelina (Camelina sativa (L.) Crantz.) as a sustainable feedstock crop for advanced biofuel production on a global scale Fernando Guillen-Portal, Javier Prieto, Laura Maher, Dario Girotti, Tavin Schneider, Barney Bernstein, Yuri Herreras, Kevin Monk, Michael Karst	#113 Utilisation of host resistance to manage blackleg of canola in South Africa <u>Huibrecht Schreuder</u> . Gert Van Coller, Diane Mostert	#143 Rapeseed production in Kazakhstan: history, status quo, and outlook for the future <u>Gulmira Samenova</u>	16:45
17:00	POSTER VIEWING (Odd numbers) Hyde Park Room		POSTER VIEWING (Odd numbers) Hyde Park Room		17:00
17:30	At the same time as the poster viewing: GCIRC General Ass	embly (For members only) Phillip Room	At the same time as the poster viewing: GCIRC General Ass	embly (For members only) Phillip Room	17:30
18:00	CLOSE OF DAY		CLOSE OF DAY		18:00

		All morning sessions held in Ballroom I	DAY SPO	ONSORS	
08:30	#005 PLENARY 4: Canola protein innovation in Canada Lisa Campbell, Protein Innovation Can	Chaired by: Maurice Moloney			
09:00	#006 PLENARY 5: Transformation in the bioeconomy – t <u>Jim Lane, The Daily Digest</u>	he changes we'll see, the opportunities we'll create	Department of Primary Industries	syngenta _®	
09:30	PANEL Q&A DISCUSSION - PRODUCT INNOVATION OPPO	RTUNITIES			
10:00	MORNING TEA Sponsored by: Syngenta		MORNING TEA Sponsored by: Syngenta		10:00
	Ballroom I - Gene editing Chaired by: Qiong Hu & Chunyu Zhang	Ballroom II - Stress Chaired by: Julianne Lilley & Jeremy Whish	Times on the Park - Insect pests Chaired by: Michael Nash & Jacqui Batley	Phillip Room - Hybrids & heterosis Chaired by: Ray Cowley & Chhaya Atri	
10:30	KEYNOTE TALK	KEYNOTE TALK	KEYNOTE TALK	KEYNOTE TALK	10:30
	#028 Applying genome editing technology for molecular breeding of rapeseed	#083 Timing of variation in chilling intensity and its effects on winter rapeseed crops	#114 Challenges facing canola growers – stand establishment and Plinazolin as a new solution	#034 Omics-based optimisation of hybrid performance and heterosis in winter oilseed rape	
10:45	Qiong Hu	Steven Penfield, Carmel O'Neill, Xiang Lu, Samuel Warner, Becca Doherty	Shad Milligan	Rod Snowdon, Sven Weber, HueyTyng Lee, Agnieszka Golicz, José Montero, Mauricio Orantes-Bonilla, Lennard Ehrig, Iulian Gabur, Eva Herzog, Amine Abbadi, Matthias Frisch	10:45
11:00	#029 Establishment of base editing with high efficiency in allotetraploid oilseed rape by A3A-PBE system Hongtao Cheng, Qiong Hu	#084 Assessing genotypic variation in heat tolerance using portable heat chambers in canola Rajneet Uppal, Shen Chen, John Bromfield, Suman Rakhsit	#115 R2D2: a territorial project to prevent pests damages on winter oilseed rape combining agronomy and conservation biological control Nicolas Cerrutti. Noémie Cadeddu, Sylvie Clerget, Michael Geloen, Antoine Lauvernay, Céline Robert, Stéphane Cadoux	#035 Implementation of heterotic pools and genomic selection in a commercial winter oilseed rape program Christian Flachenecker. Tobias Kox, Gunhild Leckband, Rod Snowdon, Matthias Frisch, Amine Abbadi	11:00 Ø Z O – Ø
11:15	#030 Enhancing low seed glucosinolate breeding by editing a transporter gene lacking natural variation in Brassica napus Yuanyuan Zhang, Yizhou He, Zhiquan Yang, Minqiang Tang, Qing-Yong Yang, Shengyi Liu	#085 Probabilistic patterns of drought, heat and frost stress for canola in Australia Zhigan Zhao, Victor Sadras, John Kirkegaard, Julianne Lilley	#116 Understanding the genetic mechanism of Brassica napus resistance to Cabbage Stem Flea Beetle <u>Emmanuel Solomon</u> , Ryan Brock, Steve Penfield, Rachel Wells	#036 Mining the strong pod shattering resistance gene in Ogu restorer lines Jia Liu, Qiong Hu, Yuting Yang, Wen Chu, Hongtao Cheng, Hui Wang, Chao Li	ທ 11:15 ພ ທ
11:30	#031 BnaA07.BBX22 enhances the salt tolerance of rapeseed by regulating ROS homeostasis Keqi Li, Yan Zhang, Xiang Liu, Yiji Shi, Lina Lang, Shunxian Tao, Aixia Xu Zhen Huang	#086 Seed priming with brassinolides enhances growth and strengthens antioxidative defenses under normal and heat stress conditions in Brassica juncea Neha, Geetika Sirhindi, Vivek Dogra	#117 Presentation of the ADAPTACOL2 project: Adaptation of WOSR to Coleopteran pests in a context of climate change and Phosmet withdrawal Celine Robert, Laurine Brillault	#037 The development of Zhongyouza501, a hybrid variety with super-high yield under dense planting, will lead a Green Revolution in rapeseed Jiaqin Shi, Xinfa Wang, Guihua Liu, Xiaoling Dun, Qing Yang, Sheng Liu, Li Jin, Hanzhong Wang	11:30 4 8 4 4
11:45	#032 Functional verification of key genes BnLAZY1.A03 for rapeseed branch angle Jia Liu. Yinhai Xu, Rijin Zhou, Wenkai Yu, Qiong Hu	#087 Comprehensive analyses reveal the regulatory network of carbon and nitrogen metabolism in rapeseed under waterlogging stress Ni Ma, Xiaohua Bian, Ximin Zhi	#118 Effect of host plant diversity on abundance of turnip aphid, cabbage aphid and cabbage caterpillar infesting Indian mustard Sarwan Kumar, Lukesh Bansal, Surinder Singh Banga	#038 A systematic dissection in oilseed rape provides insights into the genetic architecture and molecular mechanism of yield heterosis Jiaqin Shi, Jiang Ye, Huabing Liang, Xinfa Wang, Guihua Liu, Hanzhong Wang	11:45
12:00	#033 Developing canola restorer lines without negative agronomic traits associated with the Rfo introgression from radish (Raphanus sativus L.) Mohamed Samir Youssef, Claudio Stasolla, Harmeet Chawla, Robert Duncan	#088 Microbes for mitigating drought and temperature stress and enhancing yield in rapeseed mustard Pushp Sharma, Virender Sardana, Parmod Kumar Rai	#119 Integrating sustainability criteria into performance testing new criteria under study for the assessment of pest tolerance in rapeseed Eve-Anne Laurent. Laurie Magnin, Vincent Nussbaum, Romane Thaize, Katrin Carrel-Spielmann, Mathias Christen, Diane François, Brieuc Lachat, Marina Wendling, Stève Breitenmoser, Ivan Hiltpold, Alice Baux	#039 Natural variation and genetic bases of pod shatter resistance in Brassica species Harsh Raman, Rosy Raman, Jia Liu, Brett Mcvittie, Qiong Hu, Simon Diffey, Jun Zou, Xiaobo Cui, Niharika Sharma, Surinder Banga, Shengyi Liu, Nelson Gororo	12:00
12:15	LUNCH Sponsored by: NSW Department of Primary Indust	ries	LUNCH Sponsored by: NSW Department of Primary Indust	tries TUESDAY PROGRAM CONTINUED ON NEXT PAGE	12:15



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	Ballroom I - Genomes (1) Chaired by: Habibur Rahman & Isobel Parkin	Ballroom II - Digital technologies Chaired by: Jackie Bucat & Kenton Porker	Times on the Park - Stress tolerence Chaired by: Sheng Chen & Jens Berger	Phillip Room - Oil & protein Chaired by: Rodney Mailer & Peiwu Li	
13:15	#040 Exploring the potential of Brassica crop wild relatives: Insights for sustainable agriculture and biodiversity conservation **Makenzie Mabry**	#089 Advances in satellite technology and Al for crop monitoring: from data to action in agriculture *Roger Lawes*	#051 Canola pre-breeding for heat stress tolerance in Australia Sheng Chen. Rajneet Uppal, Suman Rakshit, Aldrin Cantila, John Quealy, John Bromfield, Kadambot Siddique, Wallace Cowling	#144 Development of plant-based long-chain omega-3 oils Xue-Rong Zhou, Surinder Singh	13:15
13:30			#052 Proxy traits for drought avoidance and high yield under water-limited conditions in canola Harsh Raman, Rosy Raman, Brett McVittie, Ramethaa Pirathiban, Simon Diffey, Brian Cullis	#145 Effect of free fatty acid on the shelf-life of overwintered canola seeds Véronique Barthet	13:30
13:45	#041 Detecting the genes controlling homologous recombination in <i>Brassica napus</i> Isobel Parkin, Edis Dzananovic, Peng Gao, Erin Higgins, Kevin Koh, Andrew Sharpe	#090 Development of robust UAV-based phenotyping solutions for field-growing rapeseed plants to accelerate the yield improvement in rapeseed breeding Jiangwei Qiao, Jie Li, Yi Li, Li Li, Xinfa Wang	#053 Pathways related to ROS production, clearance and signal transduction during cold response in Brassica napus L. with strong cold resistance <u>Li Ma</u> , Junqiang Fan, Li Ma, Gang Yang, Wangcang Sun	#146 The role of volatile sulfur compounds in the flavor profile of rapeseed oil and application in variety selecting and processing Qi Zhou	ທ 13:45 ຂ O – ທ
14:00	#042 Genomic insights into the origin, domestication and diversification of Brassica juncea Lei Kang. Lunwen Qian, Hao Chen, Liu Yang, Zhongsong Liu	#091 Identification of shoot architectural traits to promote winter oilseed rape vigour during the vegetative growth: a simulation approach <u>Laurène Perthame</u> , Christophe Pradal, Alexandra Jullien, Frédéric Rees, Céline Richard-Molard, Arman Grumel	#054 Defining the molecular pathways that result in phi thickening formation and mechanical strengthening of the Brassica root David Collings, Maketalena Aleamotu'a, David McCurdy, Rosy Raman, Harsh Raman	#147 Quality assessment of canola protein for the production of bio-based plastics Mariel Bonilla-Revelo, Martin J.T. Reaney, Michael T. Nickerson	и и и и
14:15	#043 An advanced <i>Brassica carinata</i> genomics platform for Brassica crop improvement Yan Niu, Qingqing Liu, Zhesi He, Rosy Raman, Hao Wang, Xinxin Long, Han Qin, Harsh Raman, Isobel Parkin, Ian Bancroft, Jun Zou	#092 UAV imaging and deep learning for automatic canola phenology detection Alexandre Boyer, Jing Wang, Geoff Bull, Jamie Scarrow, Julianne Lilley, Jeremy Whish, Alexander Zwart, Shannon Dillon, Chris Helliwell	#055 Combining physio-biochemical characterization and transcriptome analysis reveal the responses to varying degrees of drought stress in <i>Brassica napus</i> Shuai Fang. Liang Guo	#148 INTRINSIC - protein from rapeseed Peter Geerdink, Wim Mulder, Aard de Jong	14:15 4 4 4
14:30	#044 Understanding the impact of structural variations on gene expression using pangenome graphs <u>Gözde Yildiz</u> , Silvia F. Zanini, Matthias Frisch, Amine Abbadi, Rod Snowdon, Agnieszka Golicz	#093 Connecting rapeseed plant architecture to yield via 3D-imaging Sven Weber, Andreas Eckert, Lennard Ehrig, Rod Snowdon, Andreas Stahl	#056 Physiological and biochemical characterisation of Brassica juncea (Czern and Coss) inbred lines for drought tolerance Pushp Sharma, Saleem Jahangir Dar, Surinder Singh Banga	#149 RaPEQ: Rapeseed as a domestic protein source of excellent quality for human consumption Frank Peter Wolter, Bernd Weisshaar, Benjamin Wittkop, Christian Möllers, Corinna Dawid, Sarah Bothe, Katrin Heinzelmann, Christian Schein, Sören Rossmann, Jakob Ley	14:30
14:45	#045 The construction of tetraploid <i>B. napus</i> pangenome based on genetic variations of 2,882 germplasm accessions <u>Chaobo Tong</u> , Ming Hu, Xiaobo Cui, Yuanyuan Zhang, Lijiang Liu, Shengyi Liu	#094 Uncertainty in phenology parameterisation and model structure affect canola yield simulation in the APSIM Next Generation <u>Di He</u> , Julianne Lilley, John Kirkegaard	#057 Screening of salt-alkali resistant varieties and dissection of genetic basis of salt-alkali tolerance in Brassica napus Xuan Yao	#150 Sustaining poultry production with alternative protein sources <u>Sonia Liu</u> , Mehdi Toghyani, Peter Chrystal, Shemil Macelline, Peter Selle	14:45
15:00	AFTERNOON TEA Sponsored by: Syngenta		AFTERNOON TEA Sponsored by: Syngenta	TUESDAY PROGRAM CONTINUED ON NEXT PAGE	15:00



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#046 Accelerating the development and utilization of new-type Brassica napus gene pool by genomics-based approaches Jun Zou, Zunxu Zhang, Zhongyi Zhang, Han Qin, Hao Wang, Yan Niu, Gang Xu, Shuilan Hu, Xinxin Long #095 Impact of changing climate on canola yield and quality in the brown soil zone of Western Canada Curtis Rempel, Taryn Dickson, Paul Bullock, based approaches Jun Zou, Zunxu Zhang, Zhongyi Zhang, Han Qin, Hao Wang, Yan Niu, Gang Xu, Shuilan Hu, Xinxin Long #120 Effect of certain cover crops, and flowering plant strips on pathogenicity and inoculum production of Plasmodiophora brassicae and Sclerotinia sclerotiorum Nazanin Zamani-Noor, Sinja Brand, Hans-Peter Söchting #120 Effect of certain cover crops, and flowering plant strips on pathogenicity and inoculum production of Plasmodiophora brassicae and Sclerotinia sclerotiorum Nazanin Zamani-Noor, Sinja Brand, Hans-Peter Söchting #121 Effect of gene stacking and soil inoculum level on #122 Effect of certain cover crops, and flowering plant strips on pathogenicity and inoculum production of Plasmodiophora brassicae and Sclerotinia sclerotiorum Nazanin Zamani-Noor, Sinja Brand, Hans-Peter Söchting #121 Effect of gene stacking and soil inoculum level on	15:30
#096 Exploring the introduction and adaptability of winter #121 Effect of gene stacking and soil inoculum level on	
rapeseed (Brassica napus L) in northern China Wancang Sun, Junyan Wu, Gang Yang, Yan Zhang, Aiguo Li, Yali Fu, Jiming Li, Yahong Zhang, Li Ma, Lili Li, Qixian Chen, Jianming Lei, Lijun Liu, Yuanyuan Pu, Lei Zhen, Juanjuan Shi, Xuecai Li the resilience of resistant canola against Plasmodiophora brassicae (clubroot) pathotype 3H Gary Peng. Rui Wen, Tao Song, Coreen Franke Gary Peng. Rui Wen, Tao Song, Coreen Franke	15:45 0 2
#047 Allele-specific expression in resynthesized Brassica napus lines #047 Allele-specific expression in resynthesized Brassica napus lines #059 Early sowing systems improve profitability and reduce risk for canola production in south-eastern Australia #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determinants of work oilseed rape yield plasticity #059 Envirotyping within a Multi-Environment Trial allowed identifying genetic determin	6
#048 Investigating genome dominance in Brassica napus Hugh Woolfenden, Rachel Wells, Richard J Morris #098 Influence of photothermal quotient in the critical period on yield potential of canola Kenton Porker, Nick Poole, Rohan Brill, John Kirkegaard, Julianne Lilley #123 Screening and evaluation of Brassica accessions for developing clubroot-resistant commercial canola varieties Rudolph Fredua-Agyeman, Sheau-Fang Hwang, Stephen Strelkov #1048 Investigating genome dominance in period on yield potential of canola Kenton Porker, Nick Poole, Rohan Brill, John Kirkegaard, Julianne Lilley #123 Screening and evaluation of Brassica accessions for developing clubroot-resistant commercial canola varieties Rudolph Fredua-Agyeman, Sheau-Fang Hwang, Stephen Strelkov #124 Screening and evaluation of Brassica accessions for developing clubroot-resistant commercial in allotetraploid rapeseed Liyuan Zhang, Bo Yang, Chao Zhang, Cunmin Qu, Kun Lu Jiana Li	
#049 HaploMAGIC: phasing and accurately detecting recombination in multi-parental populations with genotyping errors Jose Antonio Montero-Tena, Nayyer Abdollahi-Sisi, Amine Abbadi, Matthias Frisch, Rod J. Snowdon, Agnieszka Golicz #099 Next generation Crop-Pest Model: A case study on Blackleg disease (Leptosphaeria maculans) and canola (Brassica napus) #124 A new clubroot resistance for a broadened race-specific resistance in rapeseed Steffen Rietz, Amine Abbadi, Alexander Riedel, Jamina Gabrielle Bondad, Matthew Harrison, Jeremy Whish, Susan Sprague, Kara Barry #124 A new clubroot resistance for a broadened race-specific resistance in rapeseed Steffen Rietz, Amine Abbadi, Alexander Riedel, Jeremy Whish, Susan Sprague, Kara Barry #104 A new clubroot resistance for a broadened race-specific resistance in rapeseed Steffen Rietz, Amine Abbadi, Alexander Riedel, Jeremy Whish, Susan Sprague, Kara Barry #105 BnaC01.BIN2 and BnaC03.BIN2 modulate plantation in rapeseed Steffen Rietz, Amine Abbadi, Alexander Riedel, Jeremy Whish, Susan Sprague, Kara Barry #105 BnaC01.BIN2 and BnaC03.BIN2 modulate plantation in rapeseed Steffen Rietz, Amine Abbadi, Alexander Riedel, Jeremy Whish, Susan Sprague, Kara Barry #106 BnaC01.BIN2 and BnaC03.BIN2 modulate plantation in rapeseed Steffen Rietz, Amine Abbadi, Alexander Riedel, Jeremy Whish, Susan Sprague, Kara Barry	
#050 Specific whole-chromosome discrimination through oligonucleotide-based chromosome painting in Brassica species Brassica species Mariana Baez, Ludwig Mann, Tony Heitkam, Annaliese Mason #100 Carinata and Camelina, two minor Brassicaceae with great potential for the European bioeconomy bioeconomy Annaliese Mason #100 Carinata and Camelina, two minor Brassicaceae with great potential for the European bioeconomy Annaliese Mason #125 Integrated management of Clubroot in winter oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #106 Functional divergence of SnRK1.1 family mer oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #105 Integrated management of Clubroot in winter oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #106 Functional divergence of SnRK1.1 family mer oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #106 Functional divergence of SnRK1.1 family mer oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #107 Functional divergence of SnRK1.1 family mer oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #108 Functional divergence of SnRK1.1 family mer oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson #108 Functional divergence of SnRK1.1 family mer oilseed rape based on soil DNA-analyses Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Anders Jonsson	
17:00 POSTER VIEWING (Even numbers) Hyde Park Room	17:00
18:00 CLOSE OF DAY CLOSE OF DAY	18:00



Nuseed IRC 2023 GALA DINNER

Luna Park Sydney, 1 Olympic Drive, Milsons Point Dress code: Cocktail

Free shuttles to Luna Park will run from the Congress venue between 18:00 and 18:30 hrs.

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12:00

13:00

13:30

Program - Wednesday

Deborah Rondanini, University of Buenos Aires

Barry Pogson, Australian National University

#009 PLENARY 8: Prospects and progress for gene-edited Brassicas

PANEL Q&A DISCUSSION - CROP PRODUCTION CHALLENGES

LUNCH Sponsored by: CSIRO

27 September



DAY SPONSORS



	Ballroom I - Phenology & flowering Chaired by: Rachel Wells & Harsh Raman	Ballroom II - Omics technology Chaired by: David Edwards & Thomas Altmann	Times on the Park - General diseases Chaired by: Ben Congdon & Alex Idnurm	Phillip Room - Processing & quality Chaired by: Veronique Barthet & Xue-Rong Zhou	
:30	#063 Genomic strategies for optimisation of flowering time in canola Shannon Dillon, Alexandre Boyer, Alec Zwart, Andrew Gock, Jeremy Whis, Bangyou Zheng,	#070 AVATARS - Advanced virtuality and augmented reality approaches in seeds to seeds Thomas Altmann. Amine Abbadi, Matthias Enders, Marius Kloft, Andrea Bräutigam, Olaf Sacher,	#126 Investigating Pyrenopeziza brassicae pathogen races to combat light leaf spot in winter oilseed rape <u>Laura Sapelli</u> , Chinthani Karandeni Dewage, Faye Ritchie, Bruce Fitt, Yongju Huang	#151 Modelling of the resistance to compression of dehulled rapeseed under unidirectional pressure Sylvie Dauguet. Florian Rousseau, Patrick Carré, Raphaelle Savoire	
45	Jing Wang, Matt Nelson, Julianne Lilley, Chris Helliwell	Ljudmilla Borisjuk, Hardy Rolletschek, Jozephus Schippers, Hans-Peter Braun, Evgeny Gladilin, Mary-Ann Blätke, Matthias Lange	#127 Impact of TuYV isolate diversity and abiotic factors for the assessment of existing R54-based TuYV resistance	#152 Development of an efficient approach to dehull canola seeds on industrial scale Runrong Yin	
o o	#064 Prediction of canola phenology through integration of genomic prediction and crop growth model Bangyou Zheng. Jeremy Whish, Julianne Lilley, Alexandre Boyer, Alec Zwart, Chris Helliwell, Shannon Dillon	#071 Accelerating breeding efficiency by applying high- throughput phenotyping and genomic prediction methods in Canola <u>Mukhlesur Rahman</u> , Paulo Flores, Shakil Hosain, Mohammad Jony, Fahad Hasan	#128 Using RNA interference to protect <i>Brassica napus</i> (canola) against fungal pathogens Mark Belmonte	#153 A rapid low-cost and easy method based on time resolved fluorescence lateral flow immunoassay for BaP in rapeseed oil Xiaoqian Tang. Qi Zhang, Peiwu Li	S
5 O W W	#065 When crops grow up: determining regulatory control of floral transitions within Brassica napus Gurpinder Singh Sidhu. Rachel Wells, Richard Morris	#072 Exploiting omics of <i>Brassica napus</i> core diversity populations to address trait genetics and polyploid genome evolution associated with breeding method Shengyi Liu , Y. Zhang, Q. Yang, Z. Yang, C. Liang, C. Tong, M. Xie, X. Cheng, J. Huang, Y. Liu, L. Liu, Z. Bai, Y. He, F. Gao, C. Zhao, R. Zuo, Y. Zhang	#129 Using pangenomics and machine learning for disease resistance <u>David Edwards</u>	#154 A novel comprehensive analysis approaches based on liquid chromatography-mass spectrometry for lipid oxidation of rapeseed oil Hong Chen	S E S S - O N
D H H F	#066 The role of FLC and PHP in warm winter bud dormancy activation in Brassica napus Samuel Warner. Carmel O'Neill, Xiang Lu, Richard Morris, Rachel Wells, Steve Penfield	#073 Phenomic selection: predicting quantitative traits in canola with NIRS-profiles Lennard Ehrig. Sven Weber, Stefan Abel, Reinhard Hemker, Dirk Stulgies, Milka Malenica, Amine Abbadi, Benjamin Wittkop, Rod Snowdon, Andreas Stahl	#130 Cellular and molecular pathways involved in the bacterial endophyte-mediated biocontrol of Sclerotinia sclerotiorum in Brassica juncea Sanjula Sharma, Reetranjan Kaur, Prabhjodh Singh Sandhu, Meenakshi Mittal, Pratibha Vyas, Archana Suman	#155 Genome-wide association analysis of seed color- related metabolites (mGWAS) in Brassica napus L <u>Cunmin Qu.</u> Yunshan Tang, Shulin Shen, Ran Hu, Yuhan Tang, Liezhao Liu, Kun Lu, Jiana Li	ALLEL
5 &	#067 Development of a non-vernalization-grafting floral induction method and suitable rootstocks for rapid breeding of Brassica crops Ko Motoki, Yu Kinoshita, Ryohei Nakano, Munetaka Hosokawa, Tetsuya Nakazaki	#074 Unravelling the <i>Brassica napus</i> epigenetic network with an integrated multi-omics approach Silvia Zanini. Rod Snowdon, Agnieszka Golicz	#131 Oilseed rape ringspot disease in France - an overview <u>Gwénola Riquet</u> , Franck Duroueix, Blandine Bammé	#156 Unravelling the biosynthetic pathway of bitter- tasting kaempferol derivatives in rapeseed <u>Hanna Marie Schilbert</u> , Maximilian Schöne, Johanna Pries, Prisca Viehöver, Frank Wolter, Amine Abbadi, Beverley Glover, Daniela Holtgräwe, Bernd Weisshaar	A A
	#068 Changes in the spatiotemporal expression patterns of the tandem duplicated FLC homologs associated with the non-flowering trait in Brassica oleracea Yu Kinoshita. Ko Motoki, Munetaka Hosokawa	#075 Transferring knowledge of the floral transition from Arabidopsis to <i>B. oleracea</i> using gene expression dynamics Ruth Kristianingsih. Alexander Calderwood, Gurpinder Singh Sidhu, Shannon Woodhouse, Hugh Woolfenden, Rachel Wells, Richard J. Morris	#132 Molecular profiling of the Sclerotinia sclerotiorum - Brassica pathosystem for controlling stem rot disease in mustard Navin C Gupta. Shaweta Arora, Sunita Yadav, Mahesh Rao, Pankaj Sharma, Dwijesh Chandra Mishra	#157 QTL-mapping of kaempferols and sinapic acid esters and correlations with other seed quality traits in oilseed rape Jasmin Vettel, Christoph Walser, Hanna Schilbert, Bernd Weisshaar, Corinna Dawid, Christian Möllers	
5	#069 Comprehensive speed breeding: a high-throughput and rapid generation system for long-day crops Yixian Song, Xingyu Duan, Pengfei Wang, Xiang Li, Zhaoyang Wang, Lili Wan, Guangsheng Yang, Dengfeng Hong	#076 High coverage profiling of phenolic compounds in rapeseed based on metabolomics and its application Fang Wei, Yao Zhang, Xin Lv, Qi Zhou, Hong Chen	#133 Quantitative Trait Locus (QTL) analysis and fine- mapping for Fusarium oxysporum disease resistance in Raphanus sativus using GRAS-Di technology Keiichi Okazaki, Chukwunonso Sylvanus Austin Ezeah, Juichi Shimazu, Shinichi Kawashima, Makoto Kaji, Takahiro Kawanabe, Eigo Fukai	#158 Canola fibre: How to upcycle it into bioactive and beneficial prebiotic components? <u>Bogdan Slominski</u> , Yanxing Niu, Rob Patterson, Martin Nyachoti, Anna Rogiewicz	
80	MORNING TEA Sponsored by: Bayer		MORNING TEA Sponsored by: Bayer		
	Morning/Afternoon Sessions	Following sessions held in Ballroom I Chaired by: Fernanda Dreccer	Afternoon Sessions Con	tinued	
0	#007 PLENARY 6: Brassica oilseeds – underpinning div <u>John Kirkegaard, CSIRO</u>	versity and productivity in global cropping systems		EADER SUMMATIONS Chaired by: Rod Mailer	
80	#008 PLENARY 7: Climate change challenges and ada Deborah Rondanini, University of Bu		14:30 POSTER AWARDS 14:45 INVITATION TO IRC-2027 (Paris)		

14:45

15:00

15:15

15:45

INVITATION TO IRC-2027 (Paris)

CLOSE OF DAY

CLOSING REMARKS Nick Goddard, CEO, AOF

AFTERNOON TEA Sponsored by: CSIRO