



WHEAT INITIATIVE 3RD INTERNATIONAL WHEAT CONGRESS

Workshop 5: Enhancing Wheat Productivity through Transformation and Genome Editing

Sunday, 22 September 2024

Perth Conference & Exhibition Centre (PCEC), Perth, Western Australia

Meeting Room 7, PCEC

Tentative Program		
Sunday, 22 September 2024		
Time	Co-Chairs: A/Prof Alison Bentley, Australian National University, Australia Dr James Gaffney, United States Agency for International Development, USA	
09:00 – 09:10	Introduction	
09:10 – 09:30	Enhancing wheat productivity through transformation and genome editing	Dr James Gaffney United States Agency for International Development, USA
09:30 – 09:50	Plant SynBio Australia – New opportunities for wheat improvement	A/Prof Alison Bentley Australian National University, Australia
09:50 – 10:10	HB4®: The World's First GM wheat	Mr Martin Mariani Ventura Bioceres Crop Solutions, Argentina
10:10 – 10:30	Genome-editing to improve Australian wheat	Mrs Tress Walmsley Intergrain, Australia
10:30 – 10:50	Tea/Coffee break	
10:50 – 11:10	New technologies to accelerate wheat improvement	Dr Melissa Garcia Inari, USA
11:10 – 11:30	When will it be possible to trade gene-edited wheat?	Prof Mike Jones Murdoch University, Australia
11:30 – 11:50	Title to be announced	Joanna Melonek Australian National University, Australia
11:50 – 12:10	Growth regulators for improving wheat transformation	Chaoqun Shen University of Adelaide, Australia

12:10 – 12:30	Engineering adapted wheat for Australian growers	Dr Jessica Hyles CSIRO, Australia
12:30 – 12:50	From pathogen genomics to disease resistance engineering	Dr Thorsten Langner Max-Planck-Institute for Biology, Germany
12:50 – 13:10	Fine mapping and functional verification of adult-plant resistance gene yr54 to stripe rust in wheat	Dr Shunda Li Huazhong Agricultural University, China
13:10 – 13:30	CRISPR/CAS Φ 2-mediated gene editing and base editing in wheat and rye	Mr Xiang Ji Henan Agricultural University, China
13:30 – 13:35	Closing remarks by Co-Chairs	