



WHEAT 3RD INTERNATIONAL WHEAT CONGRESS

Workshop 8: Genomic Technologies for Accelerating Wheat Research

Sunday, 22 September 2024

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

Meeting Room 10, PCEC

Tentative Program		
Sunday, 22 September 2024		
Time	Co-Chairs: Desley Pitcher, Australian Genome Research Facility, Australia Prof Rudi Appels, University of Melbourne La Trobe Murdoch University, Australia Ms Anu Chitikeni, Murdoch University, Australia	
09:00 – 09:10	Introduction	
09:10 – 09:30	Introduction - Novel technologies in Genomics	Dr Dhanya Sooraj Australian Genome Research Facility, Australia
09:30 – 09:50	Introduction - Genome assembly and 3D-Genomics Agrigenomics	Dr Brent Thomas Dovetail Genomics, USA
09:50 – 10:10	Mechanisms for adaptation and increased virulence of the Australian <i>Parastagonospora nodorum</i> pathogen population of wheat	Dr Huyen Phan Centre for Crop Disease Management Curtin University
10:10 – 10:30	Genomics technologies at Genomics WA	Dr Alka Saxena Genomics WA, Australia
10:30 – 10:50	Tea/Coffee break	
10:50 – 11:10	Optimized wheat genotyping arrays based on haplotype structure, marker quality, and candidate genes	Dr Martin Ganal TraitGenetics GmbH, Germany
11:10 – 11:30	Wheatpanomics- the next step in wheat breeding	Prof Wolfram Weckwerth University of Vienna, Austria
11:30 – 11:50	SNP-PORTRAIT: An innovative SNP data structure to improve genomic prediction accuracy using 2D-convolutional neural networks	Dr Reem Joukhadar, Qingdao Agricultural University, China & Dr Abdulqadir Jighly, AgriSustainability, Australia

11:50 – 12:10	Integrating genomic databased with PRETZEL	Dr Don Isdale Agriculture Victoria Research, Australia
12:10 – 12:30	Gene mining for coordinated wheat improvement	Dr Mao Long Chinese Academy of Agricultural Sciences, China
12:30 – 12:35	Closing remarks by Co-Chairs	