



Workshop 12: Innovative Multi-Omics Technologies for Wheat and Beyond

Sunday, 22 September 2024

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

Meeting Room 6, PCEC

Tentative Program				
Sunday, 22 September 2024				
Time	Co-Chairs: Mr Richard Harrison, MGI Tech, Australia Dr Cen Tong, BGI Research/Murdoch University, China/Australia			
13:00 - 13:10	Introduction			
13:10 - 13:30	Single-cell spatial transcriptomics drives a new era in plant research	Dr. Xun Xu BGI-Research, China		
13:30 – 13:50	Going against the grain: Investigating C4 Wheat Theory Through STOmics Spatial Transcriptomics Platform	Tori Millsteed The University of Queensland, Queensland Alliance for Agriculture and Food Innovation, Australia		
13:50 – 14:10	Dynamic Gene Regulation in Developing Wheat Spike at Single-Cell Spatiotemporal Resolution	Prof Jun Xiao Institute of Genetics and Developmental Biology, Chinese Academy of Science, China		
14:10 - 14:30	Single-cell Transcription Atlas of Seed Germination in Barley	Dr. Cen Tong BGI-Research; Murdoch University, China/Australia		
14:30 - 14:50	Tea/Coffee break			
14;50 – 15:10	Spatial Transcriptomic Study of Early Developing Wheat Inflorescence Using STOmics Stereo-seq	Dr. Yue Qu (Julian) The University of Adelaide, Australia		
15:10 – 15:30	Optimising Plant Breeding Research with Low-pass Whole Genome Sequencing	Dr. Dou Hu MGI Tech, China		

15:30 - 15:50	CropGS-Hub: A Comprehensive Database of Genotype and Phenotype Resources for Genomic Prediction in Major Crops	Dr. Cong Tan BGI-Research; BGI-Bioverse, China
15:50 – 16:10	A Bumper Crop: Latest Multi-Omics tools for Agriculture	Dr. Paul Donohoe MGI Tech, Australia and New Zealand
16:10 - 16:15	Closing remarks by Co-Chairs	