

A Program for International Workshop on Brassica Genomics

With a theme on supporting crop improvement targeting key agronomic traits

Jointly organised by CAAS Oil Crops Research Institute and AAFC Saskatoon Research and Development Centre
27th to 28th March 2018 in Wuhan

Time	Speaker	Title	Chairperson
Tuesday 27 March 2018			
8:10	Welcome remarks		Shengyi Liu
Session 1: Genomics/ genetics			
8:30	Prof. Isobel Parkin, Principal Scientist, AAFC Saskatoon Research and Development Centre, Canada	Genome structure of the Brassica A, B and C genomes	Qiong Hu
9:00	Dr. Annaliese Mason, A/s professor, Department of Plant Breeding, Justus Liebig University, Giessen, Germany	The Brassica A, B and C genomes: interspecific hybridisation, chromosome pairing, and the potential for crop improvement	
9:30	Dr. Steve Robinson, Principal Scientist, AAFC Saskatoon Research and Development Centre, Canada	Exploring epigenetic variation in plants	
10:00	Group photo		
10:10	Coffee/tea		
10:30	Prof. Shengyi Liu, Oil Crops Research Institute, CAAS, China	Toward genome-based design breeding: population genetic structure and genomic variation characteristics of a panel comprising 800 diverse Brassica napus accessions	Isobel Parkin

10:50	Dr. Jun Zou, A/s professor, College of Plant Science and Technology, Huazhong Agricultural University, China	Exploring subgenomic variation in a novel breeding population of Brassica napus synthesized from hundreds of crosses between B. rapa and B. carinata	
11:10	Prof. Zhongsong Liu, College of Agriculture, Hunan Agricultural University, China	Structure variation of chromosome A09 in Brassica juncea	
11:30	Dr. Pu Chu, A/s professor, College of Agriculture, Nanjing Agricultural University, China	The mitochondrial genomes in Brassiceae species	
11:50	Prof. Kun Lu, College of Agronomy and Biotechnology, Southwest University, China	Whole-genome resequencing reveals Brassica napus origin and genetic loci involved in its domestication and improvement	
12:10	Lunch		
	Session 2: Trait genetics and technology		
14:00	Dr. Chunren Wu , Monsanto Science Fellow, Canola Trait Integration Lead, Monsanto Canada Inc.	Monsanto's new traits and breeding technologies in canola	Gary Peng
14:30	Prof. Lixi Jiang, College of Agriculture and Biotechnology, Zhejiang University, China	Genome wide search for GDSL genes that decompose storage lipids in oilseed rape (Brassica napus)	
15:00	Prof. Xiaoli Tan, Institute of Life Sciences, Jiangsu University, China	Characterizing the Arabidopsis GDSL1 lipase gene in rapeseed Sclerotinia sclerotiorum resistance and seeking its counterpart in genome of Brassica napus	
15:20	Dr. Maolong Hu, Principal Scientist, Jiangsu Academy of Agricultural Sciences, China	Development , characterization and application of rapeseed germplasms with ALS-inhabiting herbicides resistance	
15:40	Prof. Longjiang Fan, College of Agriculture and Biotechnology, Zhejiang University, China	Identification of small RNA and their roles in heterosis and disease resistance in Brassica napus	
16:00	Coffee/tea		

16:20	Dr. Harsh Raman, Principal Scientist, Wagga Wagga Agricultural Institute, NSW Department of Primary Industries, Australia	Dissecting natural variation for resistance to blackleg and pod shatter in Brassica	Lixi Jiang
16:40	Dr. Sally Vail, Principal Scientist, AAFC Saskatoon Research and Development Centre, Canada	Germplasm and genomic opportunities for resolving complex pod shatter resistance and reducing harvest losses in canola	
17:00	Prof. Qiong Hu, Oil Crops Research Institute, CAAS, China	QTL mapping and functional characterization of pod shattering resistant genes in Brassica napus	
17:20	Dr. Yanmei Yao, Scientist, Academy of A&F Science, Qinghai University	Research progress of gene mapping for important traits in spring rapeseed	
17:40	Dr. Mi Shen, Nextomics Biosciences Co., Ltd, China	Application of long-read sequencing technologies based on Sequel and Nanopore platform	
17:55	Dinner		
Wednesday 28 March 2018			
Session 3: Disease resistance			
8:10	Dr. Fengqun Yu, Principal Scientist, AAFC Saskatoon Research and Development Centre, Canada	Use of resistance from black mustard for control of clubroot and blackleg in canola	Chunren Wu
8:40	Prof. Daohong Jiang, College of Plant Science and Technology, Huazhong Agricultural University, China	Reconsidering the pathogenicity of Sclerotinia sclerotiorum toward new strategy for breeding resistant rapeseed	
9:10	Dr. Gary Peng, Principal Scientist, AAFC Saskatoon Research and Development Centre, Canada	Omics, a tool for better understanding of clubroot resistance mechanisms and durability	
9:40	Prof. Chunyu Zhang, College of Plant Science and Technology, Huazhong Agricultural	Germplasm screening, innovation and genetic basis for clubroot resistance in Brassica napus	

	University, China		
10:00	Dr. Jiaqin Mei, A/s professor, College of Agronomy and Biotechnology, Southwest University, China	Transcriptome analysis of Brassica napus in response to early infection by Plasmodiophora brassicae	
10:20	Coffee/tea		
10:40	Dr. Lijiang Liu, Scientist, Oil Crops Research Institute, CAAS, China	Screening of germplasm and detection of QTLs for resistance to clubroot in Brassica and relatives	Daohong Jiang
11:00	Dr. Zhen Huang, A/s professor, Northwest A&F University, China	Resynthesizing of clubroot resistant Brassica amphidiploids and identifying molecular markers linked to clubroot resistant genes	
11:20	Dr. Li Xu, Scientist, Oil Crops Research Institute, CAAS, China	Role of plant hormones and glucosinolates involved in clubroot disease development	
11:40	Prof. Guoqing Li, College of Plant Science and Technology, Huazhong Agricultural University, China	Survey of blackleg in oilseed rape and cruciferous vegetables in China	
12:00	Close remarks		
12:05	Lunch		