

Publications for Chong Mei Dong

2019

Wang, A., Dong, C., Park, R., Roberts, T. (2019). Carotenoid complement of rust spores: Variation among species and pathotype. *Phytochemistry*, 161, 139-148. [More Information]

Chen, J., Wu, J., Zhang, P., Dong, C., Upadhyaya, N., Zhou, Q., Dodds, P., Park, R. (2019). De novo Genome Assembly and Comparative Genomics of the Barley Leaf Rust Pathogen *Puccinia hordei* Identifies Candidates for Three Avirulence Genes. *G3: Genes, Genomes, Genetics*, In Press. [More Information]

2018

Wang, E., Dong, C., Park, R., Roberts, T. (2018). Carotenoid pigments in rust fungi: Extraction, separation, quantification and characterisation. *Fungal Biology Reviews*, 32(3), 166-180. [More Information]

Wu, J., Dong, C., Park, R. (2018). First phased diploid genomes of three closely related *Puccinia triticina* isolates reveal molecular characteristics of somatic hybridization in nature. *2018 Stromlo Molecular Plant Pathology Meeting*, Australia: Australian National University (ANU).

Wu, J., Dong, C., Song, L., Park, R. (2018). Somatic exchange and mitotic recombination in the wheat leaf rust pathogen in nature revealed by phased dikaryotic genomes. *Sydney Bioinformatics Research Symposium 2018*, Sydney: Australian Bioinformatics and Computational Biology Society.

2017

Wu, J., Sakthikumar, S., Dong, C., Zhang, P., Cuomo, C., Park, R. (2017). Comparative genomics integrated with association analysis identifies candidate effector genes corresponding to Lr20 in phenotype-paired *Puccinia triticina* isolates from Australia. *Frontiers in Plant Science*, 8, 1-19. [More Information]

Singh, A., Zhang, P., Dong, C., Trethowan, R., Sharp, P. (2017). Exploitation of interspecific diversity for wheat improvement. *Wheat Breeders Assembly*, Sydney: Grains Research and Development Corporation.

Zhang, P., McIntosh, R., Hoxha, S., Dong, C., Forrest, K., Hayden, M. (2017). Four stripe rust resistance genes at or close to the Yr5/Yr7 locus in wheat. *13th International Wheat Genetics Symposium IWGS*, Austria: BOKU - University of Natural Resources and Applied Life Sciences.

Chen, J., Upadhyaya, N., Ortiz, D., Sperschneider, J., Li, F., Bouton, C., Breen, S., Dong, C., Xu, B., Zhang, X., Zhang, P., Park, R., et al (2017). Loss of AvrSr50 by somatic exchange in stem rust leads to virulence for Sr50 resistance in wheat. *Science*, 358(6370), 1607-1610. [More Information]

Tucker, E., Baumann, U., Kouidri, A., Suchecki, R., Baes, M., Garcia, M., Okada, T., Dong, C., Wu, Y., Sandhu, A., et al (2017). Molecular identification of the wheat male fertility gene Ms1 and its prospects for hybrid breeding. *Nature*

Communications, 8(1), 1-10. [More Information]

Dong, C., Vazquez Campos, X., Deshpande, N., Zhang, P., Wilkins, M., Park, R. (2017). Understanding oat stem rust pathogen genome by PacBio sequencing. *Sydney Bioinformatics Research Symposium SBRS 2017*, Sydney: University of Sydney.

2016

Mehmood, A., Luo, S., Ahmad, N., Dong, C., Mahmood, T., Sajjad, Y., Jaskani, M., Sharp, P. (2016). Molecular variability and phylogenetic relationships of guava (*Psidium guajava* L.) cultivars using inter-primer binding site (iPBS) and microsatellite (SSR) markers. *Genetic Resources and Crop Evolution*, 63(8), 1345-1361. [More Information]

2015

Wong, P., Dong, C., Martin, P., Sharp, P. (2015). Fairway patch - a serious emerging disease of couch (syn. bermudagrass) [*Cynodon dactylon*] and kikuyu (*Pennisetum clandestinum*) turf in Australia caused by *Phialocephala bamuru* P.T.W. Wong & C. Dong sp. nov. *Australasian Plant Pathology*, 44(5), 545-555. [More Information]

2014

Derevnina, L., Fetch, T., Singh, D., Brueggeman, R., Dong, C., Park, R. (2014). Analysis of Stem Rust Resistance in Australian Barley Cultivars. *Plant Disease*, 98(11), 1485-1493. [More Information]

Qamar, Z., Bansal, U., Dong, C., Alfred, R., Bhave, M., Bariana, H. (2014). Detection of puroindoline (Pina-D1 and Pinb-D1) allelic variation in wheat landraces. *Journal of Cereal Science*, 60, 610-616. [More Information]

Sharp, P., Dong, C. (2014). TILLING for Plant Breeding. In Delphine Fleruy, Ryan Whitford (Eds.), *Crop Breeding: Methods and Protocols*, (pp. 155-165). New York: Humana Press. [More Information]

2012

Wong, P., Dong, C., Stirling, A., Dickinson, M. (2012). Two new Magnaporthe species pathogenic to warm-season turfgrasses in Australia. *Australasian Plant Pathology*, 41(3), 321-329. [More Information]

2011

Dong, C., Yu, B. (2011). Mutation Surveyor: An In Silico Tool for Sequencing Analysis. In Bing Yu & Marcus Hinchcliffe (Eds.), *In Silico Tools for Gene Discovery*, (pp. 223-237). New York: Humana Press.

2009

Dong, C., Dalton Morgan, J., Vincent, K., Sharp, P. (2009). A Modified TILLING Method for Wheat Breeding. *The Plant Genome*, 2(1), 20-47. [More Information]

Dong, C., Vincent, K., Sharp, P. (2009). Simultaneous mutation detection of three homoeologous genes in wheat by High Resolution Melting analysis and Mutation Surveyor. *BMC Plant Biology*, 9, 143-1-143-12. [More Information]

Zhang, P., McIntosh, R., Hoxha, S., Dong, C. (2009). Wheat stripe rust resistance genes Yr5 and Yr7 are allelic. *Theoretical and Applied Genetics*, 120(1), 25-29. [More Information]

2008

Dong, C., Vincent, K., Sharp, P. (2008). A New Method for Detection of Induced Mutations in Wheat. *11th International Wheat Genetics Symposium 2008*, Sydney: Sydney University Press.

Dong, C., Dalton Morgan, J., Vincent, K., Sharp, P. (2008). Breeding Desired Quality Wheat by Reverse Genetics. *11th International Wheat Genetics Symposium 2008*, Sydney: Sydney University Press.

2007

Dong, C., Sharp, P. (2007). Oligonucleotide-Directed Gene Repair: Promises and Limitations for Plant Gene Modification. *Transgenic Plant Journal*, 1(1), 10-16.

Dong, C., Vincent, K., Dalton Morgan, J., Sharp, P. (2007). Using tilling for breeding desired quality wheat. *57th Australian Cereal Chemistry Conference (Cereals 2007)*, Melbourne, Australia: Cereal Chemistry Division, Royal Australian Chemical Insititute.

2006

Sharp, P., Dong, C., Dalton Morgan, J., Vincent, K. (2006). Genetics to genes II - Identification of GBSS and puroindoline allelic variation by TILLING. *ITMI Workshop/ACPGF Genomics Symposium*, Victor Harbor, SA: ITMI Workshop.

Dong, C., Beetham, P., Vincent, K., Sharp, P. (2006). Oligonucleotide-directed gene repair in wheat using a transient plasmid gene repair assay system. *Plant Cell Reports*, 25(5), 457-465. [More Information]

2005

Dong, C., Thomas, S., Becker, D., Lorz, H., Whitford, R., Sutton, T., Able, J., Langridge, P. (2005). WM5: Isolation and characterization of a gene expressed during early meiosis and shoot meristem development in wheat. *Functional Plant Biology*, 32(3), 249-258. [More Information]

2003

Sutton, T., Whitford, R., Baumann, U., Dong, C., Able, J., Langridge, P. (2003). The Ph2 pairing homoeologous locus of wheat (*Triticum aestivum*): identification of candidate meiotic genes using a comparative genetics approach. *Plant Journal*, 36(4), 443-456. [More Information]

2002

Dong, C., Whitford, R., Langridge, P. (2002). A DNA mismatch repair gene links to the Ph2 locus in wheat. *Genome*, 45(1), 116-124. [More Information]