

Special Issue

Mining and Mapping of Disease-Resistant Genes in Wheat

Message from the Guest Editor

Multiple fungus diseases greatly impact the product of wheat. It is the most cost-effective and environmentally friendly method to develop and cultivate disease-resistant cultivars for combating wheat diseases. Recent progress in wheat genomics and molecular genetics technologies has enabled us to mine and map disease-resistant genes for molecular breeding. However, the accurate identification and precise mapping of new disease-resistant genes from both wheat and its wild relatives remain relatively difficult. In addition, more marker development and detection strategies with low costs and high-throughput need to be explored, especially for the broad-spectrum and durable disease-resistant genes with high potential in future applications. This Special Issue will cover the latest developments and applications of wheat phenotyping, genome sequencing, GWAS, QTL mapping, map-based cloning and chromosome engineering techniques in the mining and mapping of disease-resistant genes in common wheat and its wild relatives.

Guest Editor

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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