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Breeding and Genetics in Wheat

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Deadline for manuscript
submissions:

closed (25 May 2024)

Message from the Guest Editors

Dear Colleagues,

Common wheat (*Triticum aestivum* L.), comprising the A, B, and D subgenomes, is one of the most important cereal crops and feeds more than one-third of the world's population. With the human population estimated to reach 9.9 billion by 2050, wheat production must increase by more than 2% annually to meet the increasing demand. It is a huge challenge for breeding and genetics research in wheat. The main ways to solve this challenge are to discover and utilize more important novel genes and elite allelic resources from natural variations, and to develop modern breeding strategies. With the advance in high-throughput sequencing technologies and release of crop reference genomes, the isolation of multiple genes and the analysis of the gene regulation network have ballooned in recent years. Genome information is laying a foundation for precision genome editing, bringing a “golden era” of wheat molecular breeding. This Special Issue welcomes reviews and research articles that address new findings related to wheat genetics and advanced approaches for wheat breeding.



mdpi.com/si/186571

Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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