Special Issue

Wheat Breeding: From Genetic Diversity to End-Use Quality

Message from the Guest Editor

Genetic diversity is essential for wheat improvement as wheat breeding programs rely on genetic diversity to create populations with high variability from which to select new wheat varieties. The main goals of wheat breeding programs are to increase grain yield, to enhance tolerance to biotic and abiotic stress, and to improve end-use quality. Phenotyping for end-use quality traits is time consuming and expensive and requires large amount of grain only obtainable late in the breeding cycle. Therefore, application of genomic tools holds great potential for accelerating wheat breeding for grain yield, stress resilience and end-use quality, by reducing breeding cycle time and enabling selection on much larger number of breeding lines. This Special Issue of *Plants* is open to all contributions covering but not limited to 1) genetic diversity for wheat improvement, 2) wheat breeding for grain yield, resistance and end-use quality, 3) application of new breeding technologies and strategies to wheat improvement, and 4) identification, development, and utilization of new genetic markers. Original research articles and reviews are welcome.

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, 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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