

Special Issue

Genetic Potentials and Breeding Progress in Cereal Grains

Message from the Guest Editors

In light of the increase in food demand, genetics and breeding play a significant role in increasing cereal productivity and contributing to the resilience of those agri-food systems in a changing climate. With the advent of new technologies, it is possible to intervene in plant breeding schemes to significantly accelerate the rate of genetic gain and develop elite germplasm with the adequate combination of traits for the environments in which new varieties will be grown. In this Special Issue, we encourage the submission of papers related to:

- The application of new technologies and methods to advance cereal breeding, including, but not limited to genomic prediction, marker-assisted selection, environomics, high-throughput phenotyping, speed breeding, gene editing, etc.
- The estimation of genetic gains in cereals for yield potential and climate resilience.
- Genetic studies of traits relevant to cereal production and food security, including, but not limited to genome-wide association studies and linkage mapping experiments.

New methodologies and strategies that have the potential to increase genetic gain.

Guest Editors

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Editor-in-Chief

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