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Genetics, Genomics and Breeding of Cereals

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Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editor

The global population is estimated to reach nine billion by 2050, creating an increased demand for food. Additionally, food nutrition standards demand the delivery of higher quality products. Cereals account for over 70% of the energy used in food and feed around the world and are important for global food security. However, the production of cereals is constrained by abiotic and biotic stresses. Therefore, in order to produce better yields and higher quality cereal crops, genetic improvements need to be focused on. Advances in cereal genomics have allowed us to tackle the most important stresses and mitigate their effects.

These advances are reviewed in the present Special Issue and will help to advance modern agriculture. The understanding of drought, flooding, salinity and metal toxicity effects and their corresponding genetic variants required for tolerance and fungal, bacteria and virus resistance in major cereal crops is fundamental for the success of cereal breeding and food security.













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Message from the Editor-in-Chief

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