Special Issue

Germplasm Evaluation and Breeding of Cereals under a Changing Environment

Message from the Guest Editors

Cereals are the most important source of energy for feeding humans and livestock worldwide. With climate change leading to an increased incidence of biotic and abiotic stresses, which affects both yield and quality, breeding new cultivars with improved traits that are stable across a range of environments is a challenge. An important goal in the development of new cereal cultivars is therefore to increase their resistance to biotic stresses caused by various diseases and pests, as well as to abiotic stresses such as drought, extreme temperatures, salinity, soil nutrient deficiencies, etc.

The implementation of new methods of high-throughput phenotyping and molecular marker technology into existing cereal breeding programs can accelerate the breeding process and increase the response to selection.

This Special Issue of the journal Agronomy will focus on all aspects of cereal breeding for improved grain yield and quality. Welcome topics include, but are not limited to, the evaluation of germplasm for yield and quality traits under stress and non-stress conditions in the field and in the laboratory, QTL mapping, GWAS and molecular breeding.

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