

Special Issue

Breeding Cereals for Improved Agronomic and Quality Traits under Adverse Environmental Conditions

Message from the Guest Editors

Cereals are an important component of daily diets worldwide and play a key role in ensuring food security. To ensure food security, food production must increase by at least 60 percent to meet the needs of future populations. Significant variation among genotypes and environments has been reported for different agronomic and quality traits of cereal crops, and their interaction has often been shown to contribute to a great proportion of overall trait variation. High variation in environmental conditions across locations and years, significantly influenced by increasing incidence of various biotic and abiotic stresses, usually increases the $G \times E$ component of variation and consequently decreases the heritability of a trait and its response to selection. Therefore, breeding efforts for increased stress tolerance can contribute significantly to the overall stability of grain yield and quality in cereal varieties. This Special Issue (SI) aims to collect reliable information and experiences from around the world on genetic and breeding aspects of tolerance of cereal crops to biotic and abiotic stresses. The SI is open to research articles, opinions, reviews, and perspectives.

Guest Editors

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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