

## Special Issue

# Molecular Breeding Approaches to Improve Agronomic Traits and Stress Resistance in Cereals

### Message from the Guest Editors

Cereals are the most widely grown crops globally. Advancements in DNA sequencing, mapping techniques, map-based cloning strategies like SHOREmap and MutMap, and functional genomic strategies have played a significant role in deepening our understanding of cereal genetics.

This knowledge has been applied to improve yield under changing environmental conditions and in response to pressures from pests and pathogens. Selection for traits such as plant height, spike morphology, seed weight, and seed number, which directly influence yield, as well as resistance or tolerance to fungal, bacterial, and viral pathogens, nematodes, and abiotic stressors (including drought, salt, heat, cold, and heavy metals) has been prioritized.

This Special Issue of *Agriculture* focuses on showcasing recent advances in the fields of cereal genetics, genomics, and biotechnology, as well as examples of their application in crop improvement through breeding for agronomic traits and stress tolerance. Different article types, such as original research articles, opinions, and reviews, are welcome.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 November 2025)



## Agriculture

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## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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### Editor-in-Chief

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