

## Special Issue

# Genetic Research and Breeding to Improve Stress Resistance in Rice

### Message from the Guest Editor

Rice is one of the most essential staple crops globally; however, it faces increasing challenges due to climate change and various environmental stresses such as drought, salinity, and cold. Improving rice stress resistance is therefore of paramount importance.

Recent advances in genetic research and molecular breeding have made significant strides in improving rice resilience under these adverse conditions. This Special Issue seeks to compile cutting-edge research on the genetic and molecular mechanisms underlying rice stress resistance, including the identification and functional analysis of stress-responsive genes, molecular regulation, QTL mapping, and their practical applications in breeding. We invite original research articles and reviews covering areas such as gene discovery and functional validation, multi-omics, genome-wide association studies (GWASs), marker-assisted selection, and innovative breeding techniques, with the goal of advancing the development of rice varieties with enhanced stress tolerance.

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### Guest Editor

Dr. Luomiao Yang

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### Deadline for manuscript submissions

closed (25 April 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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