

## Special Issue

# Genetic Identification and Characterisation of Crop Agronomic Traits and Stress Resistance—2nd Edition

### Message from the Guest Editors

With the increasing global human population, there is a continuous demand for food supply, and climate change scenarios pose an additional threat to agricultural production worldwide. Therefore, we rely on continuous genetic gains and genetically driven approaches for crop improvement. The identification of loci for agronomic traits and their genetic characterization are crucial for breeding new varieties. The introduction of new adaptive alleles in diverse genetic backgrounds helps to improve grain yield or develop newer crop varieties to balance supply and demand globally. The availability of large-scale genomic resources provides an opportunity to discover genetic and molecular mechanisms behind plant responses to different environmental stresses. Integrating various omics technologies into routine breeding pipelines will support the delivery of cultivars with robust yield and improved quality. In this Special Issue, we aim to bring together research papers and reviews on using plant genetic and genomic resources for enhancing key agronomic traits in the current plant breeding scenario.

---

### Guest Editors

Dr. Niharika Sharma

Dr. Jayakumar Bose

Dr. Kalenahalli N. Yogendra

---

### Deadline for manuscript submissions

20 December 2025



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/199142](https://mdpi.com/si/199142)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)

[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)





# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)



## About the Journal

### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

---

### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,  
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)