

## Special Issue

# Study of Targeted Genome Editing for Crop Improvement

### Message from the Guest Editors

With rapid advances in genome editing systems, and ongoing research on plant functional genomics and genome editing techniques, crop improvement and breeding has entered the new era—"Precision breeding". The precision genome editing systems, such as CRISPR/Cas and its derived system (base editing and prime editing), have become an important tool in the hands of breeders to get the desirable trait or new varieties. In this Special Issue, we welcome research papers and reviews describe the targets, effects, and improvements of targeted crop genome editing for crop improvement. We encourage reports about novel editing methods and target sites for improving disease resistance, abiotic stress tolerance, yield and nutrition utilization efficiency in crops. In particular, developing and migrating novel genome editing systems to crops are highly appreciated in this Special Issue.

---

### Guest Editors

Dr. Bohan Liu

College of Agronomy, Hunan Agricultural University, Changsha 410128, China

Dr. Shuan Meng

College of Agronomy, Hunan Agricultural University, Changsha 410128, China

---

### Deadline for manuscript submissions

closed (31 March 2024)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/153752](https://mdpi.com/si/153752)

*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)