

Special Issue

Genetics, Genomics and Breeding of Minor Cereals

Message from the Guest Editor

Minor cereals, such as foxtail millet, sorghum, broomcorn millet, edible beans, buckwheat, oats, etc., are widely cultivated worldwide for grain food and forage consumption, particularly in developing and underdeveloped countries with low productivity conditions. Their resilience to drought and harsh environments makes them well-suited for cultivation in challenging conditions. Additionally, minor cereals are nutrient-dense, containing a blend of micro- and macro-nutrients, proteins, essential amino acids, dietary fiber, and resistant starch, providing valuable supplements to staple cereal crops like rice, maize, wheat, and soybeans globally. This Special Issue aims to delve into the dissection of key traits, such as yield potential, stress tolerance, disease resistance, and quality formation, utilizing genetic (forward and reverse) and genomic approaches to enhance the yield and quality potential of relevant minor crop species. This research has the potential to benefit future breeding programs for minor cereals on a global scale, especially in underdeveloped countries facing low productivity conditions in Asia and Africa.

Guest Editor

Prof. Dr. Guanqing Jia

Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Deadline for manuscript submissions

31 March 2025



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



mdpi.com/si/212244

Agronomy

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



[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 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)