

Special Issue

Identification and Utilization of Crop Wild Relatives' Germplasm

Message from the Guest Editor

Modern agriculture is grappling with the dual pressures of a growing global population and changing climate conditions, necessitating the development of crops with higher yields and enhanced environmental adaptability. Crop wild relatives, as an invaluable reservoir of plant germplasm with abundant genetic diversity, play a crucial role in breeding all over the world. During prolonged natural selection, wild species have preserved a wealth of genetic resources for plant growth and development, biotic and abiotic tolerance, stress resistance, nitrogen utilization, photosynthesis efficiency, etc. The rapid advancements in genetics and genomics techniques have significantly facilitated the identification of elite genes in wild species, which can be utilized for enhancing crop varieties. This Special Issue focuses on the utilization of wild relatives as a genetic resource for crop breeding. We aim to publish scientific contributions conducted on various kinds of crop wild relatives (even distantly) covering all related topics, including germplasm collection and evaluation, crop genetics and genomics, novel opinions and modeling, case studies, and breeding scenarios.

Guest Editor

Prof. Dr. Zuofeng Zhu

Department of Plant Genetics and Breeding, China Agricultural University, Beijing 100193, China

Deadline for manuscript submissions

closed (30 July 2025)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/225190

Agronomy
Editorial Office
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 3.4
CiteScore 6.7



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

