

## Special Issue

# Breeding and Genetics of Maize

### Message from the Guest Editors

Maize is one of the most important cereal crops in the world. The germplasm resources of maize are rich. Maize breeding and genetic research are indispensable links in agricultural production which covers mining genetic resources, the functional analysis of key genes, genetic breeding methods, and technical system improvements including the traditional methods, such as selection, hybridization, germplasm improvement and other means to improve the traits of maize varieties, and the modern methods to make more direct modifications to maize genes through gene editing and transformation technologies to ameliorate maize varieties quickly and precisely without large-scale changes to the genetic genome. The methods and techniques of maize breeding research are constantly innovative which aim to explore more efficient and sustainable methods of maize breeding and genetic improvement and strive to develop more new varieties that are efficient, highly nutritious and adaptable to different climatic conditions. This Special Issue focuses on recent advances in the breeding and genetics of maize, inviting all types of articles, such as research papers and methods, reviews and opinions.

### Guest Editors

Prof. Dr. Yurong Xie

Research Institute of Biology and Agriculture, University of Science and Technology Beijing, Beijing 100096, China

Dr. Xiupeng Mei

College of Agronomy and Biotechnology, Southwest University, Chongqing 400715, China

### Deadline for manuscript submissions

closed (15 October 2024)



## Agriculture

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/202807](https://mdpi.com/si/202807)

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

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





# Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



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



## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

---

### Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, 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, RePEc, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)