agronomy

an Open Access Journal by MDPI

IMPACT FACTOR 3.4

CITESCORE 6.7

# Precision Breeding Technologies of Rice

Guest Editors:

**Dr. Gang Pan**
Agronomy Department, Zhejiang University, Hangzhou 310058, China

**Dr. Yong-Feng Shi**
Chinese National Center for Rice Improvement, China National Rice Research Institute, Hangzhou 310006, China

Deadline for manuscript submissions:
**closed (25 November 2022)**

## Message from the Guest Editors

Rice is the staple food of more than 3.5 billion people worldwide and plays an important role in ensuring future food security, especially in Asia, parts of Africa and Latin America. Thus, it is extremely important to develop new rice cultivars with high yield, high quality, multiresistance and wide adaptability. However, balancing yield, cooking and taste quality and disease resistance is a daunting challenge in crop breeding due to the antagonistic relationship among these traits. Therefore, it is difficult to generate novel elite rice cultivars balancing multiple agronomic traits through traditional breeding. However, at present, with the rapid development of multi-omics, computational biology, synthetic biology and other basic sciences, precision breeding techniques have appeared. This Special Issue of Agronomy seeks to offer a platform for researchers to publish high-quality reviews, opinions and research articles on the precision breeding technologies of rice through genetic engineering, GWAS, functional marker-assisted selection and artificial intelligence in the context of improving grain yield, disease resistance, quality and the eurytopic characteristic of rice.

agronomy

IMPACT FACTOR 3.4

CITESCORE 6.7

an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Leslie A. Weston**
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

## 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.

## 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), GEOBASE, PubAg, AGRIS, and other databases.
**Journal Rank:** JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

## Contact Us

*Agronomy* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
𝕏@Agronomy_Mdpi