

## Special Issue

# Biological Technology Platforms Accelerating Crop Improvement

### Message from the Guest Editors

Modern agriculture has been hugely impacted by a number of technological innovations. Compared to conventional breeding methods, biotechnology provides the opportunity to fix a gene in a new crop variety more quickly, defining gene function, and make precise genome edits. More recently, sensor- and image-based phenotyping technologies have been developing rapidly. The use of big data tools and machine learning allow scientists to take advantage of advanced data storage and analysis capabilities to test complex hypotheses about the function of plants and agricultural systems. This special issue will focus on advanced technologies in crop production. The featured areas include biotechnology, phenotyping, big data management, and bioinformatics. We also welcome contributions based around newer technologies, which may have an impact on agriculture in the future.

---

### Guest Editors

Dr. Mamoru Okamoto

Dr. Darren Plett

Dr. Trevor Garnett

---

### Deadline for manuscript submissions

closed (31 December 2017)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/9565](https://mdpi.com/si/9565)

*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)