

## Special Issue

# Effect of Agricultural Management Practices on Soil Microbial Community Composition, Diversity and Function

### Message from the Guest Editors

A fundamental challenge in agriculture is to increase crop yield while preserving a healthy soil environment. Agricultural practices significantly influence soil properties and biodiversity, particularly by shaping the microbial communities within the soil. The profound impact of these practices extends to various soil ecosystem processes, influencing the potential for developing sustainable agriculture to meet the global food demand. Considering the spatial heterogeneity in microbial community structures, the outcomes of specific management practices may vary across different agricultural regions. Therefore, a thorough comprehension of the effects of agricultural management practices on microbial diversity and function in diverse agricultural regions enhances the applicability of agricultural measures. In this Special Issue, we invite the latest advancements that elucidate the impact of agricultural practices on soil microbial ecology. Submissions are welcome to cover topics like soil health, soil fertility, microbial biogeography, and related subjects.

### Guest Editors

Prof. Dr. Yajun Hu

College of Agronomy, Hunan Agricultural University, Changsha 410125, China

Prof. Dr. Xiangbi Chen

Key Laboratory of Agro-ecological Processes in Subtropical Region, Institute of Subtropical Agriculture, Chinese Academy of Sciences, Changsha 410125, China

### Deadline for manuscript submissions

31 August 2025



## Agronomy

an Open Access Journal  
by MDPI

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/195051](https://mdpi.com/si/195051)

*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)