

## Special Issue

# Significance of Microbial Communities to Soil Organic Matter and Soil Quality

### Message from the Guest Editors

Soil organic matter (SOM) is an important soil property that helps to maintain and improve soil quality (SQ). Therefore, there is an intrinsic relationship between SOM and SQ, and it is fundamental to promote plant growth and converse the environment. Soil microbial communities play an important role in the degradation and decomposition of SOM to release macro and micro nutrients in soils. Soil microorganisms use SOM as a carbon source for energy and growth. This Special Issue aims to discuss and advance the knowledge about soil microbial communities and their relationship to SOM and SQ. Original papers and reviews describing studies on the influence and action of soil microbial communities in SOM and SQ are welcome and related topics: Soil microbial diversity for the degradation and decomposition of soil organic matter; Biofertilizer/PGPR/microbia inoculant/microbial consortium for soil fertility and health management; Functional attributes of soil health indicators; Soil microbiomes for maintaining soil quality; Climate-resilient microbial inoculants for multiple crop productivity.

### Guest Editors

Dr. Jay Prakash Verma

Plant Microbe Interactions Lab, Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi 221005, Uttar Pradesh, India

Dr. Ademir Sérgio Ferreira De Araujo

Centro de Ciências Agrárias, Universidade Federal do Piauí, Teresina, PI, Brazil

### Deadline for manuscript submissions

closed (1 August 2023)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/159007](https://mdpi.com/si/159007)

*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)