

## Special Issue

# Advanced Research of Soil Microbial Functional Diversity

### Message from the Guest Editor

Soil microorganisms are essential drivers of nutrient turnover in terrestrial ecosystems, being involved in numerous key soil processes, including formation and decomposition of organic matter, respiration, plant nutrition, and health. Research on soil microorganisms has become a crucial topic in ecology and functional diversity is the essential link between biodiversity patterns and ecosystem functioning. Soil microbial communities are responsible for energy and nutrient cycling and are massively involved in the planet's sustainability. Soil microorganisms are not only affected by ground vegetation but also react to vegetation through its own changes, forming an interactive feedback system with vegetation. Compared with the physicochemical properties of soil, soil microbial characteristics are sensitive even to small fluctuations in the environment and change very fast. Microbial functional diversity is an important index to evaluate soil process and ecological function, and its definition and quantification have practical and theoretical implications.

### Guest Editor

Dr. Cristina Abbate

Department of Agriculture Food and Environment, University of Catania, Catania, Italy

### Deadline for manuscript submissions

closed (20 November 2022)



## Agriculture

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/54571](https://mdpi.com/si/54571)

*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)