

## Special Issue

# Microbial Composition and Function in Soil and Groundwater Systems

### Message from the Guest Editors

Research on microorganisms has allowed us to understand their critical roles in soil and groundwater systems. Diverse microbial communities are present in soil at approximately 108 to 109 cells per gram, while they are less diverse in groundwater systems due to the nutrient-depleted conditions. Most activities and functions of microbial communities in soil and groundwater are the results of their astounding metabolic versatility. These activities and functions link the biosphere, lithosphere, hydrosphere, and atmosphere in the Earth's critical zone. The abilities of microbial communities to destroy or detoxify organic and inorganic contaminants are significant to environmental protection and human health. This Special Issue will present advances in the metabolism, distribution, and underlying drivers of microbial communities and their functions in both pristine and contaminated soil and groundwater systems, with the aim of improving our understanding of global nutrient biogeochemical cycles, contaminant bioremediation, biotechnology development, and the exploration of biological resources.

---

### Guest Editors

Prof. Dr. Yizhi Sheng

Dr. Juejie Yang

Dr. Liang Guo

---

### Deadline for manuscript submissions

closed (20 November 2022)



## Life

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.4**  
**CiteScore 6.0**  
**Indexed in PubMed**



[mdpi.com/si/125168](https://mdpi.com/si/125168)

*Life*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[life@mdpi.com](mailto:life@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[life](https://mdpi.com/journal/life)





# Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/journal/  
life](https://mdpi.com/journal/life)



## About the Journal

### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

---

### Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona  
Institute of Science and Technology, 08028 Barcelona, Spain

---

### 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), PubMed, PMC, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)