

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

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Deadline for manuscript submissions

closed (20 November 2022)



Life

an Open Access Journal
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Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



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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.

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