



## Microbes and Biogeochemical Cycling in Terrestrial Ecosystems Under Climate Change

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### Message from the Guest Editor

Microbes, the most diverse organisms on earth, play a pivotal role in terrestrial ecosystems by influencing essential processes such as litter decomposition, nutrient cycling, biodiversity maintenance, soil fertility, and climate regulation. Understanding the microbial mechanisms involved in soil carbon and nutrient cycling is crucial for comprehending ecosystem dynamics and their feedback to the climate system. This Special Issue aims to address the following key questions:

1. How do soil microbes influence specific aspects of carbon and nutrient cycling processes?
2. What factors govern the resilience and adaptation of microbial community structures in response to environmental changes?
3. How do microbial functional traits related to carbon and nutrient cycling operate at the ecosystem level?
4. How do microbial processes vary temporally and spatially across different terrestrial landscapes?





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## Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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