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Microbial Community Composition and Function in Forest Soil

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Message from the Guest Editors

Soil microbes play important roles in maintaining multiple ecosystem functions and driving biogeochemical cycles. They can be the key indicators for evaluating soil health and fertility, and the effectiveness of vegetation restoration. Microbial communities are very complex and sensitive to the environment. Under the background of climate change and ecological restoration, many unknowns and uncertainties exist in the spatial and temporal patterns, functions and influencing factors of forest soil microbes.

We encourage the research including but not limited to: the microbial community composition and diversity; community assembly; growth and metabolic activity and biomass; soil enzymes; stoichiometric characteristics; functional genes; special groups of microbes; plant-microbe interactions; microbial functions (such as involved in elemental biogeochemical cycles, carbon fixation, soil quality, soil formation, pollutant degradation, litter decomposition, and etc.), and their biogeographic patterns; temporal dynamics; and responses to vegetation succession and environmental and climate changes.



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