

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

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