Special Issue

Fungal Metagenome of Tropical Soils

Message from the Guest Editors

This SI focuses on recent advances in metagenomics, which allow for the comprehensive study of fungal communities through high-throughput sequencing techniques. Key topics include the characterization of fungal biodiversity across different tropical biomes; the influence of environmental factors such as soil pH, organic matter content, and moisture levels on fungal community composition; and the interactions between soil fungi and plant roots. Additionally, this SI addresses how fungi contribute to ecosystem services like carbon sequestration, nutrient turnover, and pathogen suppression. This research is critical for improving sustainable land management, particularly in the face of deforestation, climate change, and agricultural expansion in tropical regions. The findings highlight the potential of fungal communities as bioindicators for soil health and as a resource for biotechnological applications.

- The characterization of fungal biodiversity across different tropical biomes;
- The influence of environmental factors on fungal community composition;
- The interactions between soil fungi and plant roots;
- Future perspectives on the fungal metagenome.

Guest Editors

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