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Special Issue Reprint

Fungal Communities in Various Environments

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This Reprint collates recent research advances on fungal communities across a wide range of terrestrial and aquatic environments. The collected studies examine how fungal diversity, community assembly, and functional attributes respond to environmental gradients, including variations in soil properties, nutrient availability, vegetation, elevation, and habitat type.

This Reprint highlights the ecological roles of fungi in key ecosystem processes such as decomposition, nutrient cycling, and biotic interactions, with contributions spanning forest, agriculture, mangrove, rhizosphere, and sedimentary ecosystems. Using high-throughput sequencing, ecological network analysis, and emerging long-read technologies, the studies provide insights into both taxonomic patterns and functional dynamics of fungal communities.

By integrating evidence across ecosystems and methodological approaches, this Reprint offers a consolidated perspective on fungal ecology and emphasizes the importance of linking community structure to ecosystem functioning under environmental change.

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