Special Issue

Microbial Communities and Indicators of Agroecosystem Health

Message from the Guest Editor

Agriculture is vital for humanity due to its role in the assurance of food for a continously increasing population. The ecosystems where food is produced are constantly under both biological and abiotic pressure, which alter the stability of soil microbiomes and their reslience ability. Fungal communities represent a critical component of agroecosystems; these microorganisms have been related to numerous ecosystem services. The fungal activity of these microorganisms is visible in the flow and transformation of organic matter, in the functionality of biogeochemical cycles and the flow of nutrients through their hyphal networks. The diversity and abunance of fungal components in agroecosystems are directly related to the entire ecosystem health and stability status, and are visible at higher levels in the plant's growth and development traits. The activity of fungi in agriculture is related to both benneficial effects (symbiosis, conversion of organic residues, antibiotic production, biocontrol) and negative effects (pathogenesis), which are visible in plant potential yield and eocsystem functionality.

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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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