



Ecophysiology and Diversity of Soil Microbial Communities in Terrestrial Ecosystems

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Message from the Guest Editors

Soil is considered from modern positions as the main natural bank of microorganisms with properties necessary for humans. Soils and soil-related substrates are an inexhaustible source of strains with useful properties for biotechnology; a source for the discovery and description of many unknown life forms. For the conservation of biodiversity, the protective function of the soil is of great importance—the conservation of a viable state of various surviving stages of organisms. An important problem facing soil microbiologists is the study and preservation of the uncultivated part of the microbial community of extreme and anthropogenically undisturbed (territory of nature reserves, forest areas and sanctuaries) soil habitats. The problem is of both practical and theoretical interest.

The scope of the Special Issue is the assessment of the phylogenetic and functional features of soil microbial communities under forests, and the survival of prokaryotic and fungal microbial soil components under the influence of anthropogenic (hydrocarbons, heavy metals, polymers) and abiotic (temperature, humidity, salinity, pH) factors.





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