



Management of Agricultural Microbiomes towards Sustainability and Restoration

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Message from the Guest Editors

Traditionally, crop production has been characterized by agricultural practices that challenge the resilience of agroecosystems, leading in many cases to soil degradation and desertification, intensified by climate change. Microorganisms are nutrient cycling drivers in agroecological processes that influence soil fertility and improve crop performance against pests and environmental stress. Currently, comprehensive studies elucidate the diversity and function of microbial assemblages across agricultural components and different trophic levels, enabling the potential use of microbiomes as a biotechnological tool for agroecosystems sustainability and restoration.

This Special Issue aims to gather contributions with innovative research approaches on agricultural microbiomes, targeting the following topics:

Assessment of microbiomes across multitrophic levels (interactions) in degraded and recovered agroecosystems; Management of agricultural microbiomes to address issues such as pest management or soil restoration; Microbiome-based biostimulants and their effect on plants, animals, and other components of the agroecosystem; Microbial tools to revert soil degradation in agroecosystems.





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