Special Issue

Microbial Community Dynamics in Soil Ecosystems

Message from the Guest Editor

Soil microbiomes are Earth's most diverse communities, governing key ecosystem processes like decomposition, fertility, and climate regulation. However, their immense diversity remains largely unexplored, with most species and their functions unknown. This knowledge gap limits our ability to predict microbial community dynamics and their ecosystem functions under global environmental change. In this Special Issue, we aim to present the latest findings on "Microbial Community Dynamics in Soil Ecosystems", focusing on the diversity, taxonomy, morphology, interaction, and distribution patterns of soil microorganisms across multiple environmental gradients. Specific topics include, but are not limited to, the following: (1) new methodologies for soil microorganisms; (2) microbial biogeography; (3) microbial responses and adaptations to global change: (4) plant-microbe interactions; (5) microbial roles in soil biogeochemical cycles; and (6) relationships between soil microbial diversity and multifunctionality. We intend for this Special Issue to serve as a reference work on soil microbial research for both professionals and students.

Guest Editor

Dr. Jiao Feng

Department of Ecology, College of Resources and Environment, Huazhong Agricultural University, Wuhan 430070, China

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Diversity
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diversity@mdpi.com

mdpi.com/journal/diversity





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Editor-in-Chief

Prof. Dr. Michael Wink

Institute of Pharmacy and Molecular Biotechnology, Heidelberg University, Im Neuenheimer Feld 329, D-69120 Heidelberg, Germany

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