

Special Issue

Plant–Soil–Microorganism: Diversity and Interactions

Message from the Guest Editor

Interactions between plants and microorganisms play an important role in maintaining biodiversity and terrestrial ecosystem functioning. The direction and magnitude of plant–microbe interactions can vary largely within and between species, and under human-induced global change such as climate warming and land-use, which ultimately determine the positive or negative impacts of microorganisms on plant health. Investigating the associations of plants with microorganisms would thus be crucial for our understanding of how plants can benefit from their microbial partners. The papers presented in this Special Issue mainly focus on new and cutting-edge knowledge on the following interesting topics:

- Soil biodiversity and ecosystem multifunctionality;
- Host–microbiome interactions and plant health;
- Soil microbial–plant diversity relationships;
- Effects of climate change on microbial–plant interactions;
- Diversity patterns and community assembly;
- Evolutionary genetics of plant and microbial adaptation;
- Microbial mediation of soil biogeochemical cycles;
- Models and methodologies for plant–soil–microorganism feedbacks.

Guest Editor

Prof. Dr. Xiaobo Wang

State Key Laboratory of Grassland Agroecosystems, Center for Grassland Microbiome, and College of Pastoral, Agriculture Science and Technology, Lanzhou University, Lanzhou 730020, China

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

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About the Journal

Message from the Editor-in-Chief

Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.

We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).