



Interactions between Plants and Soil Microbes in Natural Ecosystem

Guest Editor:

Prof. Dr. Chao Zhang

State Key Laboratory of Soil
Erosion and Dryland Farming on
the Loess Plateau, Northwest A&F
University, Yangling 712100,
China

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Message from the Guest Editor

Plant–soil–microbe interactions drive biogeochemical processes in terrestrial ecosystems. In these systems, plants release nutrients into the soil in the form of residue decomposition and root exudates, which improves the soil environment and supplies substrates to soil microorganisms, and microorganisms transform organic nutrients into inorganic nutrients for plant absorption and utilization. The synergistic relationship between plants, soil, and microorganisms is the internal driving force of maintaining ecosystem structure and functions, such as nutrient cycling, biodiversity conservation, and food provision. Plant–soil–microbe interactions have become a hot spot in soil ecology, plant science, and environmental research. We especially encourage authors to conduct investigations into plant–soil–microbe interactions in natural soils, such as in grasslands, shrubs, forests, swamps, deserts, and so on, and reveal the underlying mechanism between the aboveground structure and belowground functions, such as the diversity–function relationship, nutrient–microbe associations, and rhizosphere dynamics.





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MDPI, Grosspeteranlage 5
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