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Advances in Plant-Soil-Microbe Interactions

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Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editor

Plants provide niches for the growth and proliferation of a variety of soil microorganisms, such as bacteria, fungi, protists, and viruses, and these microorganisms form a complex co-correlation with plants. Soil microorganisms can give plant hosts health advantages, including growth promotion, nutrient absorption, stress tolerance, and resistance to pathogens. Plants secrete secondary metabolites to recruit soil microorganisms, and rhizosphere microorganisms have the ability to be manipulated or designed to be beneficial to plants due to their co-evolution capabilities. In addition, the environment has a great influence on the genetic, biochemical, and metabolic interactions of the plant-rhizosphere microbial community. Therefore, it is essential to clarify how the interaction between plant-rhizosphere soil-microorganism shapes the assembly of plant-related microbiome and regulates its beneficial properties. This Special Issue aims to collect research on plant-soil-microbial interactions, which are related to community assembly, nutrient regulation, secretion of secondary metabolites, and regulation mechanisms.



mdpi.com/si/105903

Special Issue



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Message from the Editor-in-Chief

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