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Plant-Associated Microorganisms: Exploring Their Beneficial and Harmful Impacts on Plant Production in Response to a Changing Climate

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Message from the Guest Editors

This Special Issue aims to gather recent data and innovations in the research on plant-soil microorganism interactions, as well as identify new prospects, directions, and challenges in plant and microbial biotechnologies. Understanding these interactions will help design treatments that promote crop yield and quality under changing climate conditions. We welcome the submission of original research articles, reviews, opinion, and methods, focusing on (but not limited to) the following topics:

- Microbial application for plant growth promotion and/or protection;
- Innovative and more effective microbial formulations towards agriculture sustainability;
- Drivers, roles, processes, and mechanisms in plantmicrobe interactions;
- Molecular, genomic, and metagenomic analysis of plant-associated microbe biodiversity;
- Physiological, biochemical, and molecular functions of symbiotic microorganisms in plants to mitigate the adverse impact of environmental stresses;
- Impact of symbiotic microbes application on plant susceptibility to pathogen infection;
- Impact of microorganisms on nutrient transformations in soil toward promoting plant fitness.







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Message from the Editor-in-Chief

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