



## Microorganisms and Plant Nutrition

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### Message from the Guest Editors

Microorganisms constantly interact with plants supplying macro- and micronutrients, fostering plant growth and controlling microbial pathogens as well as increasing plant resistance against abiotic stress factors. Managing microbial communities in soil–plant systems is currently one of the main scientific challenges and a promising tool to optimize crop production and quality. These challenges are related to the isolation, selection, characterization, production, formulation, and development of field application techniques of microbial inoculants. However, it is now also understood that a deep analysis of the existing soil–microbiome–plant relationships is necessary to take into consideration to assure an effective and sustainable use of microbial products. Furthermore, prebiotic, probiotic, and postbiotic approaches to enhance soil quality and facilitate microbial functions of existing and formulated beneficial microorganisms have to be encompassed in the research to fully appraise the mechanisms utilized by plants for recruiting microbial specific functions.





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## Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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