



Phytomicrobiome Research for Disease and Pathogen Management

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Message from the Guest Editors

Plant health and productivity require a holistic view and an in-depth understanding of the diversity and functions of microorganisms associated with soil and plants, also known as phytomicrobiome, which include beneficial members that provide critical ecosystem services and pathogens threatening food safety and security. High-throughput omics tools, ranging from metabarcoding, metagenomics, metatranscriptomics, metaproteomics, to metabolomics, allow identify bioindicators (microorganisms, genes, and/or molecules) associated with ecosystem functioning, reveal synergisms and antagonisms among community members across kingdoms, and assess the impact of environmental (e.g. climate) and anthropological factors (e.g. agronomic practices).

This special issue looks forward to receiving contributions about

- 1) phytomicrobiomes, their functions and dynamics in agroecosystems or forests
- 2) the impact of environmental and anthropogenic factors
- 3) interactions among community members and, notably, towards phytopathogen communities (e.g. viruses, bacteria, fungi, oomycetes, protozoa, nematodes) or pests.





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Message from the Editor-in-Chief

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