



The Contribution of Phytobiomes for Resilient and Productive Agroecosystems

Guest Editor:

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Deadline for manuscript
submissions:

15 February 2025

Message from the Guest Editor

Dear Colleagues,

The Special Issue explores the pivotal role of phytobiomes—complex networks of plants, associated microbiomes, and environmental factors—in enhancing crop health and achieving sustainable agricultural practices. This Special Issue aims to consolidate cutting-edge research that advances our knowledge of phytobiomes, focusing on their potential to improve crop yield, disease resistance, stress tolerance, and reduce contentious inputs while maintaining crop productivity in changing climates.

We are soliciting original research. Topics of interest include, but are not limited to, functional/ecological aspects of soil, root, shoot and seed microbiomes in agricultural and forestry contexts, host genetic determinants for phytobiome attributes, phytobiome manipulations, phytobiome data science and precision approaches, and the application of phytobiome knowledge in developing sustainable agricultural technologies. Studies employing novel methodologies, such as metagenomics, data-driven technologies and prediction models and advanced imaging techniques, are particularly welcome.

Dr. Pierre Hohmann
Guest Editor



mdpi.com/si/210072

Special Issue



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Message from the Editor-in-Chief

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