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Benefits of Innovative Microbial Biosolutions to Sustain Crop Health

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Message from the Guest Editors

The use of biosolutions—i.e., biofertilizers, biostimulants, and biocontrols—constitutes a promising approach aimed at reducing the use of synthetic products and developing sustainable farming systems that are more respectful of the environment. Among these solutions, harnessing the potential of microorganisms to promote plant growth and health is a key area of interest in developing relevant bio-inoculants. Indeed, microorganisms present numerous interesting abilities contributing to the establishment of beneficial plant–microbe interaction and, therefore, sustaining crop development. However, field deployment of such microbial biosolutions is often challenging. To ensure and promote the effective transfer and success of biosolutions in agriculture, several research areas are still needed. The development of bio-inoculants needs to rely on reliable methods for the screening of promising microbial candidates and the characterization of their potential. Determination of the modifications induced on the entire soil–plant system following microbial inoculation is crucial to better understanding and disentangle all mechanisms of action.

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Message from the Editor-in-Chief

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