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Biofertilizer Microorganism in Agriculture

Guest Editor:

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Message from the Guest Editor

Biofertilizers are substances containing active microorganisms that promote plant growth and development and increase crop yields through a variety of mechanisms, such as nitrogen fixation, solubilizing phosphate, and potassium, which inhibit plant pathogens and protect crops from biological stress. At present, excessive use of harmful chemical fertilizers and pesticides causes environmental pollution and damages human health. Biofertilizers are considered a promising nontoxic alternative, essential to promoting sustainable agricultural development.

In this Special Issue of *Microorganisms*, we welcome but are not limited to the following topics:

(1) Potentiality and effect of fertilizer microorganisms on plant growth and development and biocontrol;

(2) Research and development of biofertilizers with a new mode of action;

(3) Current use of biofertilizer at agricultural production sites around the world, its application effect, and dissemination situation (diversity);

(4) Specific examples of how we can contribute to the achievement of the sustainable agricultural development in recent years (economic evaluation and contribution).

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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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