

Special Issue

How Could Microorganisms Benefit the Agriculture Environment?

Message from the Guest Editor

Our current highly productive intensive agricultural system has been mostly achieved using synthetic nitrogen and phosphorus fertilizers. The dependence of modern agriculture on a massive input of chemical fertilizers has caused deterioration of soil and water quality, making soils biologically inert and sometimes highly saline and polluting surface and groundwater. Thus, it is essential to find inexpensive, environmentally benign, and easy-to-operate options to overcome environmental threats posed by fertilizers. The most suitable alternatives for chemical fertilizers are microbial biostimulants (bacterial or fungal), which have a number of positive effects for agriculture: increasing crop yield at low cost and with easy access and application, protection of human health (via food chain), and low impact to the environment. Specifically, this Special Issue will focus on the use of microorganisms to overcome environmental threats posed by fertilizers. We are open to novel research, reviews, and opinion articles covering all aspects of the responses and mechanisms developed by microorganisms to alleviate the detrimental effects of intensive agricultural systems.

Guest Editor

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