



## Plant–Microbial Interactions and Application of Microbial Products in Agricultural Ecosystems

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### Message from the Guest Editor

Dear Colleagues,

The fundamental infrastructure of our world is sustained by maintaini. For plant protection, most farmers rely on chemical pesticides to overcome different confronting problems. These pesticides cause different toxic or health problems to respective environments. Therefore, scientists are searching for less toxic or lethal substances and currently focusing on different biopesticides, particularly phytochemicals or plant extracts, which are very effective against different targeted herbivorous host insects and storage insects. Similarly, plant protection strategies also cover different natural enemies (predators and parasitoids) as well as plant byproducts (semio-chemicals), which play a significant role in the worldwide Integrated Pest Management program. Likewise, biopesticides are biofungicides, bioherbicides, and bioinsecticides (e.g., *Bacillus* spp.). Thus, microbial populations play a vital role in agriculture by improving production and quality. There are several microbial agents (bacterial, fungal, viral) that positively (by pathogenic to insect pests) or negatively (by pathogenic to plants) affect plant life.

Dr. Muhammad Qasim

*Guest Editor*





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