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Microbial Interventions in Agriculture and Environment

Volume 1 : Research Trends, Priorities and Prospects

- Provides authentic and well-presented content with multiple microbial functions and their benefits in agro-ecology for readers to learn beneficial microbial processes, mechanisms and gaps in the knowledge
- Presents well-written and documented environmental problems in current perspectives and their microbial remediation for the researchers, faculties and students
- Presents characteristic microbial functions and their ecological benefits

Microbial communities and their functions play a crucial role in the management of ecological, environmental and agricultural health on the Earth. Microorganisms are the key identified players for plant growth promotion, plant immunization, disease suppression, induced resistance and tolerance against stresses as the indicative parameters of improved crop productivity and sustainable soil health. Beneficial belowground microbial interactions with the rhizosphere help plants mitigate drought and salinity stresses and alleviate water stresses under the unfavorable environmental conditions in the native soils. Microorganisms that are inhabitants of such environmental conditions have potential solutions for them. There are potential microbial communities that can degrade xenobiotic compounds, pesticides and toxic industrial chemicals and help remediate even heavy metals, and thus they find enormous applications in environmental remediation. Microbes have developed intrinsic metabolic capabilities with specific metabolic networks while inhabiting under specific conditions for many generations and, so play a crucial role. The book *Microbial Interventions in Agriculture and Environment* is an effort to compile and present a great volume of authentic, high-quality, socially-viable, practical and implementable research and technological work on microbial implications.

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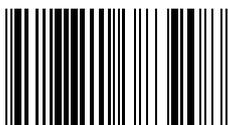
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