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Unlocking the Potential of Biofertilizers



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Call for Chapters

Unlocking the Potential of Biofertilizers

Aims and Scope:

"Unlocking the Potential of Biofertilizers" aims to offer an in-depth exploration of biofertilizers and their critical role in sustainable agriculture. By contrasting biofertilizers with chemical inputs, the book delves into their ability to promote soil health, enhance crop productivity, and reduce environmental impacts. The content is designed to provide a comprehensive understanding of various biofertilizers, focusing on microbial processes such as nitrogen fixation, phosphorus solubilization, and the enhancement of micronutrient availability. This book serves as a practical guide for farmers, agronomists, researchers, and policymakers to adopt eco-friendly agricultural practices. In addition to foundational knowledge, the book also covers the production, application technology and quality standards required for effective use of biofertilizers. It not only highlights current research and applications but also provides a forward looking perspective on innovations in the field. By addressing both scientific and practical aspects, the book seeks to position biofertilizers as vital tools in achieving sustainable farming, mitigation to climate change and contributing to global food security

List of Topics

- Introduction to Biofertilizers
- Nitrogen Fixation by Free-Living and Symbiotic Bacteria
- Nitrogen Fixation by Blue-Green Algae
- Rhizobium and Legume Root Nodulation
- Frankia-Induced Nodulation in Actinorhizal Plants
- Phosphorus Solubilizing Microorganisms
- Mycorrhizal Fungi as Biofertilizers
- Biofertilizers for Improving Micronutrient Availability
- Potash Solubilizing Microbes
- Sulfur Solubilizing Microbes
- Plant Growth-Promoting Rhizobacteria (PGPR) as Biofertilizers
- Sustainable Organic Farming with Biofertilizers
- Biofertilizer as a tool for mitigating biotic stress
- Biofertilizer as a tool for mitigating abiotic stress
- Biofertilizers from Wastes
- Formulation Techniques of Biofertilizers
- Application Technology of Biofertilizers
- Quality Standards for Biofertilizer Production and Marketing
- Emerging Trends and Innovations in Biofertilizer Research and Development
- Past, Present, and Future Trends of Biofertilizers

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