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Titolo Microbiomes for the Management of Agricultural Sustainability / /

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Nota di contenuto Chapter 1. Integrated Approaches to Agri-Nanotechnology:

Applications, Challenges and Future Perspectives -- Chapter 2. Microbiota in sustainable degradation of organic waste and its utilization in agricultural industry -- Chapter 3. Microbial degradation of toxic Agri wastes -- Chapter 4. Introduction of Biofertilizers in Agriculture with Emphasis on Nitrogen Fixers and Phosphate Solubilizers -- Chapter 5. Biofertilizers and biopesticides: approaches towards sustainable development -- Chapter 6. Credibility of biofertilizers towards restoration of fertility phenomenon in degraded soil environs -- Chapter 7. Macrophytes as biofertilizer for Agriculture: Concept and Applications -- Chapter 8. Potential role of biofertilizers in fruit crops -- Chapter 9. Microbial Biofertilizers: An Approach to Sustainable Agriculture -- Chapter 10. Actinomycetes as biofertilizers for Sustainable agriculture -- Chapter 11. Innovations in Biotechnology: Boon for Agriculture and Soil fertility -- Chapter 12. Microbiomes in Climate Smart Agriculture and sustainability -- Chapter 13. Genetic engineering towards improvement of phosphorus agricultural utilization -- Chapter 14. Pseudomonas as backbone for environmental health -- Chapter 15. Cyanobacteria as sustainable microbe for agricultural industries -- Chapter 16. Functional Diversity of

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18. Carbon and Silver Nanoparticles for Applications in Agriculture.

Sommario/riassunto

This volume discusses innovative advancements in soil and crop microbiome technology and methods to support agricultural sustainability and reduce soil degradation. As climate change impacts agricultural productivity and soil health in impacted regions throughout the world, potential alternatives to find balance between soil health and crop yield are increasingly needed. Therefore, this book provides a timely, global perspective with a collection of expert authors to address how microbiomes can be used to achieve agricultural sustainability in threatened and degraded areas, while also covering related matters including soil health, pest management, waste disposal, environmental contamination, biofertilizer production, composting, and microbial engineering. The book is meant to serve as a reference for agriculturalists, environmentalists, graduate and post-graduate students, researchers, and professors of sustainability and agricultural management.