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Nota di contenuto	Chapter 1. Soil Fertility and Sustainable Agriculture -- Chapter 2. Bacterial Community Structure and Function in Acid Soil Ecosystem -- Chapter 3. Soil enzymes and their role in soil health improvement -- Chapter 4. Soil Bacillus as biocontrol agent: Prospects and applications -- Chapter 5. An overview of soil bacteria for CO2 sequestration -- Chapter 6. Soil Verrucomicrobia and their role in sustainable agriculture -- Chapter 7. Agricultural wastes as an alternative source for the production of antibiotics: recent developments and future perspectives -- Chapter 8. Valorization of agri-food industry waste for the production of microbial pigments: An eco-friendly approach -- Chapter 9. Commercial production of Biohydrogen using microbes -- Chapter 10. Microbial synthesis of Polyhydroxyalkanoates (PHAs) and their Applications -- Chapter 11. Biosynthesis of polyunsaturated fatty acids from microalgae for nutraceuticals -- Chapter 12. Microbial polyhydroxyalkanoates (PHAs): A brief overview of their features, synthesis, and agro-industrial applications -- Chapter 13. Trends in probiotics on human health and industrial application -- Chapter 14.

Plant secondary metabolites: A biosensing approach.

Sommario/riassunto

This book embodies chapters pertaining to microbial diversity and technology developed for its application in the agroindustry. It facilitates state of the art and microbial research in the realm of bioprocess and fermentation technology, production of PHAs, microbial lipids, dairy products, development of nutraceuticals, biocatalyst bioprospecting through metagenomics, utilization of agro-waste for production of microbial pigments, waste bioremediation of fish industry, drugs from macrofungi and a step ahead of technology on plant secondary metabolites detection through biosensing approaches. The potential characteristic of microbes from various environments has also been discussed vividly for application in the agroindustry. The editors focused on making it a useful resource for soil microbiologists, agricultural scientists, policymakers, industrial microbiologists concerned with developing agriculture and agroindustry.