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Nota di contenuto	Chapter 1. Recent Trends in Plant and Microbe based Biopesticide for Sustainable Crop Production and Environmental Security -- Chapter 2. Microbial Biofertilizers and Biopesticides: Nature's assets fostering sustainable agriculture -- Chapter 3. Microbial factories for biofuel production: Current trends and future prospects -- Chapter 4. Industrial Methanogenesis: Bio-Methane Production from Organic Wastes for energy supplementation -- Chapter 5. Recent Trends and Advancements in Biosensor Research for Food Safety -- Chapter 6. Bacteriocin: A Potential Biopreservative in Foods -- Chapter 7. Utilization of agro waste for Pectinase production for its industrial applications -- Chapter 8. Gallic Acid (GA): A Multifaceted Biomolecule Transmuting the Biotechnology Era -- Chapter 9. Role of Metagenomics in Plant Disease Management -- Chapter 10. Endophytes as Guardians of Plants against Diseases -- Chapter 11. Mass Production and Quality of Biological Control Agents for pest management -- Chapter 12. Iron chlorosis in peach: Current trend and eco-friendly management outlook -- Chapter 13. Role of microbes in plastic degradation -- Chapter 14. Bioplastics: Fundamentals to application -- Chapter 15. Microbial electrochemical dye degradation: present state of art -- Chapter 16. Psychrophiles as the Source for Potential Industrial Psychrozymes -- Chapter 17. Transcriptional Regulators in Bacillus

Anthraxis: A Potent Biothreat Agent -- Chapter 18. Medicinal fungi: A natural source of pharmacologically important metabolites -- Chapter 19. Biochemical Aspects of Syngas Fermentation -- Chapter 20. Marine Actinobacteria: New horizons in bioremediation.

Sommario/riassunto

This book focuses on the application of microorganisms in various aspects of life such as plant protection and improvement, environmental remediation, and the improvement of plant & human health. Various applications of microorganisms are examined in depth, e.g. applied microbiology in agriculture, microbes in the environment, the development of new microbial enzymes, and microbes in human health. In turn, the book shares insights into the diverse microorganisms that have been explored and exploited in the development of various applications for agricultural improvements. It also discusses the detection and exploitation of microorganisms in the diagnosis of human diseases, which offer potential holistic approaches to health. Presenting the latest information and findings on the applications of microbial biotechnology, the book offers a valuable resource.
