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Nota di contenuto	chapter 1 Microbial Biotechnology in Agriculture and Aquaculture — An Overview -- chapter 2 Biotechnology of Soil Enzymes -- chapter 3 Rhizobial Nitrogen Fixation in Agriculture: Biotechnological Perspectives -- chapter 4 The Agro-industrial Productions\ -- chapter 5 Microbial Biotechnology of Sulfur in Agriculture -- chapter 6 Interactions among Beneficial Soil Microorganisms -- chapter 7 Microbial Biotechnology for Sustainable Agricultural Production in Arid Soils -- chapter 8 Soil Microbial Biomass and Activity— Lasting Impact of Agricultural De-intensification -- chapter 9 Use of Microbial Biofertilizers for Sustainable Aquaculture/Fish Culture -- chapter 10 Actinomycetes Biotechnology in Agriculture and Aquaculture -- chapter 11 Trichoderma: Systematics, Molecular Taxonomy and Agricultural and Industrial Applications -- chapter 12 Biological Control of Soil-borne Sclerotial Pathogens using Fluorescent Pseudomonads -- chapter 13 Biotechnology Applied for the Utilization of Lignocellulose Biomass -- chapter 14 Use of Microbes in Managing Post-harvest Crop Residues: Sugarcane Residue as a Case Study -- chapter 15 Microbial Technology for Bioethanol Production from Agricultural and Forestry Wastes.

Sommario/riassunto

In agriculture, microbial biotechnology covers a wide array of subjects ranging from biofertilizers to biological control of pests and diseases; from biological N 2 -fixation to lignocellulose degradation; from production of biomass and biofuels to genetically engineered plants. Similarly, microbial biotechnology in aquaculture touches several aspects such as biofilms, bioprocessing of biomaterials (metabolites, enzymes, proteins, exopolysaccharides, et cetera), application of biofertilizers, probiotics, bio-remediation of contaminated water, et cetera This book is an attempt to highlight the significant aspects of the vast subject area like application of microbial biotechnology in agriculture and aquaculture.