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Nota di contenuto	chapter 1 Microbes and Their Contributions to Plant Biotechnology / Subhash C. Minocha -- chapter 2 Genetically Modified Plants: Applications and Issues / Ioannis S. Arvanitoyannis -- chapter 3 Rhizobial Production Technology / Neung Teamroong -- chapter 4 Phosphorus Solubilizing Microorganisms and Their Role in Plant Growth Promotion / Olga Mikanova -- chapter 5 Biotechnology of Biofertilizers for Rice Crop / S. Kannaiyan -- chapter Colour Plates between -- chapter 6 Physiological and Genetic Effects of Bacterial ACC Deaminase on Plants / Saleema Saleh-Lakha -- chapter 7 Rhizobial Strain Improvement: Genetic Analysis and Modification / Marta Laranjo -- chapter 8 Influence of Microorganisms/Microbial Products on Water and Sediment Quality in Aquaculture Ponds / Claude E. Boyd -- chapter 9 Linking Ecotechnology and Biotechnology in Aquaculture / J. Olah -- chapter 10 Marine Microbial Biotechnology and Aquaculture - An Overview / P. K. Pandey and C.S. Purushothaman -- chapter 11

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Sommario/riassunto

Plant genetic engineering has revolutionized our ability to produce genetically improved plant varieties. A large portion of our major crops have undergone genetic improvement through the use of recombinant DNA techniques in which microorganisms play a vital role. The cross-kingdom transfer of genes to incorporate novel phenotypes into plants has utilized microbes at every step-from cloning and characterization of a gene to the production of a genetically engineered plant. This book covers the important aspects of Microbial Biotechnology in Agriculture and Aquaculture with and aim to improve crop yield.