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Altri autori (Persone)	SundhIngvar WilcksAndrea GoettelMark S <1954-> (Mark Stanislaw)
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6 Safety and Regulation of Microbial Pest Control Agents and Microbial Plant Growth Promoters - Introduction and Overview7 Microbial Control of Invertebrate Pests; 8 Microbial Control of Plant Diseases; 9 Safety and Regulation of Microbial Control of Weeds; 10 Plant Growth Promotion with Microorganisms; PART III: OTHER INDUSTRIAL APPLICATIONS; 11 Regulation of Microorganisms Used for Bioremediation, Biorefinery and Other Bioindustrial Applications in the USA and Canada; PART IV: EVALUATING SAFETY; 12 Determining the Safety of Microorganisms - Introduction and Overview
13 Virulence Genes in Risk Assessment of Beneficial Microorganisms: What Do Genome Sequences Tell Us?14 Occupational Safety of Microbial Agents; PART V: MODEL TEST SYSTEMS; 15 Model Systems for Testing Microbial Pathogenicity, Virulence and Toxicity - Introduction and Overview; 16 Nematode and Insect Models to Assay Microbial Infectivity, Virulence and Cytotoxicity; 17 Assessing Potential Cytotoxicity of Biocontrol Microorganisms Using Invertebrate Assays; 18 Assessing Genotoxic Effects of Microbial Products; 19 Assessing the Sensitization and Irritant Properties of Microorganisms
PART VI: INTERNATIONAL HARMONIZATION AND RISK PERCEPTION20 International Conventions and Agreements - Consequences for International Trade and Utilization of Biological Matter, Including Microorganisms; 21 OECD Guidelines and Harmonization for Microbial Control Agents; 22 Understanding Public Risk Perception for the Use of Beneficial Microorganisms; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; Q; R; S; T; U; V; W; X; Y; Z

Sommario/riassunto

Microorganisms are widely used in various beneficial applications, including food, pest control, bioremediation, biodegradation, biofuel processes, and plant symbiosis and growth stimulation. This book provides an overview of the available methodology for safety assessments of microorganisms, including determination of their infectivity and whether they produce toxic or sensitizing substances. Also covered are the regulatory systems in risk assessment and management of microbial products, quarantine legislations, international treaties, the importance of public risk perception and risk reducti