Biological Control

Global Impacts, Challenges and Future Directions of Pest Management









New Directions In Biological Control

D.O. TeBeest

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Biological Control Heikki M. T. Hokkanen, James M. Lynch, 2003-10-30 Biological control of insect pests plant pathogens and weeds is the only major alternative to the use of chemical pesticides in agriculture and forestry This book is the first comprehensive attempt at a balanced benefit risk assessment of biological control It covers classical biological control of pests and weeds augmentation of natural enemies and the use of biopesticides Unique sections deal with genetic engineering of biocontrol agents and crop plants economic analysis of biocontrol and the ecological consequences of the introduction of organisms. The book will be of interest to researchers and postgraduate students in biotechnology agriculture forestry and Molecular Biology of the Biological Control of Pests and Diseases of Plants Muthukumaran environmental sciences Gunasekaran, Darrell Jack Weber, 2020-01-29 While many books are available on biological control this is the only book to detail the application of molecular biology to control of pests and diseases Each chapter deals with a different pathogen and the application of new molecular biological techniques to the biocontrol of the pathogen This new reference presents the most comprehensive list of organisms available Internationally respected experts discuss viruses bacteria fungi nematodes protozoa weeds and insects Types of control methods are described and techniques commonly used in molecular biology to identify the etiological agents diagnose diseases and develop control methods are reviewed Biological Control of Postharvest Diseases of Fruits and Vegetables Charles L. Wilson, Edo Chalutz, 1991 Advanced Engineered Pesticides Leo Kim, 2024-11-01 Emphasizing the need for more integrated pest management programmes this work presents the development and state of the art technology of genetically engineered microbes viruses bacterial toxins and plants Throughout both environmental and regulatory concerns are addressed Biological Control of Plant Diseases E.C. Tjamos, G.C. Papavizas, R.J. Cook, 2013-06-29 The papers contained in this book were presented at a NATO Advanced Research Workshop ARW held at Cape Sounion Athens Greece 19 24 May 1991 The twenty eight more comprehensive papers represent the key subjects of the ARW covered by invited speakers. The thirty four short papers pre sented in a research format are contributions of those invited to participate in the ARW There was a total of 70 participants from 21 countries The objectives of the ARW were as follows to review current knowledge of biological control of plant diseases and plant parasitic nematodes with emphasis on mechanisms at the molecular cellular organismal and ecosystem level to examine and expand on current concepts and synthesize new concepts to identify and prioritize limitations in the use of biological control for plant diseases and nematodes and the scientific research needed to overcome these limitations and to develop strategies for biological control through management of resident agents or introduction of natural or modified agents Handbook of Biological Control T. W. Fisher, Thomas S. Bellows, L. E. Caltagirone, D. L. Dahlsten, Carl B. Huffaker, G. Gordh, 1999-09-20 For many years the use of chemical agents such as pesticides and herbicides has been effective in controlling the many varieties of pests that infest both agricultural crops and backyard gardens However these pests are gradually becoming

resistant to these agents because the agents themselves are acting as selective factors making the pests better and better able to resist and persist As a result the use of biological controlling agents is increasing This book is a comprehensive and authoritative handbook of biological control Microbial Control of Weeds D.O. TeBeest, 2012-12-06 It is appropriate at this time to reflect on two decades of research in biological control of weeds with fungal plant pathogens Some remarkable events have occurred in the last 20 years that represent a flurry of activity far beyond what could reasonably have been predicted In 1969 a special topics review article by C L Wilson was published in Annual Reviews of Phytopathology that examined the literature and the potential for biological control of weeds with plant pathogens. In that same year experiments were conducted in Arkansas that determined whether a fungal plant pathogen could reduce the infestation of a single weed species in rice fields In Florida a project was under way to determine the potential use of a soil borne plant pathogen as a means for controlling a single weed species in citrus groves Work in Australia was published that described experiments that sought to determine whether a pathogen could safely and deliberately be imported and released into a country to control a weed of agricultural importance All three projects were successful in the sense that Puccinia chondrillina was released into Australia to control rush skeleton weed and was released later into the United States as well and that Colletotrichum gloeosporioides f sp aeschynomene and Phytophthora palmivora were later both marketed for the specific purpose of controlling specific weed species Agrobiodiversity Management for Food Security Jillian M. Lenné, David Wood, 2011-02-01 Agrobiodiversity provides most of our food through our interaction with crops and domestic animals Future global food security is firmly anchored in sound science based management of agrobiodiversity This book presents key concepts of agrobiodiversity management critically reviewing important current and emerging issues including agricultural development crop introduction practical diversity in farming systems impact of modern crop varieties and GM crops conservation climate change food sovereignty and policies It also addresses claims and misinformation in the subject based Ecological Interactions And Biological Control David A. Andow, 2019-04-11 Recent interest in nonchemical on soun methods of pest control has brought renewed attention to the biological control of plant pests in the fields of entomology plant pathology and weed science Ecological Interactions and Biological Control addresses issues of theory and practice common to all three fields Focusing on systems rather than on individual Environmentally Safe Approaches to Crop Disease Control Jack E. Rechcigl, 2018-01-18 The use of chemicals in agriculture and home gardens has become an area of concern due to improper use and negative environmental effects Environmentally Safe Approaches to Crop Disease Control addresses alternative approaches for managing crop diseases It gives a balanced overview of state of the art environmentally safe approaches to crop disease control and discusses the latest trends

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