

Manual of Techniques in Insect Pathology

Edited by
Lawrence Lacey

BIOLOGICAL TECHNIQUES SERIES



Manual Of Techniques In Insect Pathology Biological Techniques Series

Sergio Molinari



Manual Of Techniques In Insect Pathology Biological Techniques Series:

Manual of Techniques in Insect Pathology Biological Techniques Series Lacey L. A.,1997 *Manual of Techniques in Insect Pathology* Lawrence A. Lacey,1997-02-27 Biological Techniques is a series of volumes aimed at introducing to a wide audience the latest advances in methodology The pitfalls and problems of new techniques are given due consideration as are those small but vital details not always explicit in the methods sections of journal papers In recent years most biological laboratories have been invaded by computers and a wealth of new DNA technology and this will be reflected in many of the titles appearing in the series The books will be of value to advances researches and graduate students seeking to learn and apply new techniques and will be useful to teachers of advanced undergraduate courses involving practical or project work This manual describes the broad array of techniques that are used in insect pathology It will provide biologists insect pathologists entomologists and those interested in biological control with the necessary information to work on a variety of pathogen groups This book will be an essential laboratory reference for insect pathologists Features include Step by step instructions on how to isolate identify culture bioassay and store the major groups of entomopathogens Details of the practical knowledge needed by beginners to apply the techniques Chapters written by an international group of experts Discussion of safety testing of entomopathogens in mammals and also broader methods such as microscopy and molecular techniques Provides extensive supplemental literature and recipes for media fixatives and stains *Field Manual of Techniques in Invertebrate Pathology* Lawrence A. Lacey,Harry K. Kaya,2013-06-29 The 38 chapters of this Field Manual provide the tools required for planning experiments with entomopathogens and their implementation in the field Basic tools include chapters on the theory and practice of microbial control agents statistical design of experiments equipment and application strategies The major pathogen groups are covered in individual chapters virus bacteria protozoa fungi nematodes Subsequent chapters deal with the impact of naturally occurring and introduced exotic pathogens and inundative application of microbial control agents The largest section of the Manual is composed of 21 chapters on the application and evaluation of entomopathogens in a wide range of agricultural forest domestic and aquatic habitats Mites and slugs broaden the scope of the book Supplementary techniques and media for follow up laboratory studies are described Three final chapters cover the evaluation of Bt transgenic plants resistance to insect pathogens and strategies to manage it and guidelines for evaluating the effects of MCAs on nontarget organisms Readership Researchers graduate students practitioners of integrated pest management regulators those doing environmental impact studies The book is a stand alone reference but is also complementary to the laboratory oriented Manual of Techniques in Insect Pathology and similar comprehensive texts

Nematodes as Biocontrol Agents Parwinder S. Grewal,Ralf-Udo Ehlers,David I. Shapiro-Ilan,2005 This book documents and illustrates major developments in the use of nematodes for the biological control of insects and slugs It covers the use of three main types of nematodes entomopathogenic nematodes entomophilic nematodes and slug parasitic

nematodes The biology commercial production formulation and quality control application technology strategy and safety of each of these three nematode groups is discussed The book also examines the application of nematodes in different cropping systems and the efficacy of nematodes against specific pests The potential of predatory nematodes to control plant parasitic nematodes and mycophagous nematodes to control fungal pathogens is also reviewed *Common Infectious Diseases of Insects in Culture* Vladimir Gouli, Svetlana Gouli, Jose Marcelino, 2011-08-12 This handbook gives a comprehensive and copious illustrated description with original art work of the most common diseases in laboratory reared insect colonies comprising Viruses Baculoviridae Reoviridae Poxviridae Iridoviridae Bacteria Bacillaceae Pseudomonadaceae Enterobacteriaceae Rickettsia Fungi and Microsporidia and Protozoa Gregarine and Coccidian parasitoids are also depicted Manuals for the diagnostic of insect diseases have been published in the 90 s however these were intended for professional insect pathologists or for proficient training in invertebrate pathology hence requiring some scientific background in insect pathology Currently most guides are web based not comprehensive and solely addressing the most common diseases in a particular insect or group of insects reared in laboratory facilities A comprehensive and proficient practical handbook for students and technicians working with insect reared colonies is lacking in the current literature *Entomopathogenic Nematodes as Biological Control Agents* David I. Shapiro-Ilan, Edwin E. Lewis, 2024-09-23 Entomopathogenic nematodes EPNs are biocontrol agents that are used to control a wide variety of insect pests within agriculture and forestry In addition to their use as bio pesticides EPNs have a fascinating biology and are thus considered model organisms in ecology symbiosis and pathogenesis This book presents basic knowledge and diverse applications to illustrate how EPNs play an important role as potent biocontrol solutions This book is a must have for all pest management professionals including those practicing integrated pest management strategies Manual of Techniques in Invertebrate Pathology Lawrence A. Lacey, 2012-06-15 1 Initial Handling and Diagnosis of Diseased Invertebrates Lawrence A Lacey and Leellen Solter 2 Basic Techniques in Insect Virology Karolin E Eberle Jorg T Wennmann Regina G Kleespies and Johannes A Jehle 3 Isolation Culture Preservation and Identification of Entomopathogenic Bacteria of the Bacilli Tanja W Fisher and Steven F Garczynski 4 Bioassay of Bacterial Entomopathogens Against Insect Larvae Maureen O Callaghan Travis R Glare and Lawrence A Lacey 5 Bacteria for use Against Soil Inhabiting Insects Albrecht M Koppenhofer Trevor A Jackson and Michael G Klein 6 Identification of Entomopathogenic Fungi Richard A Humber 7 Laboratory Techniques Used for Entomopathogenic Fungi Hypocreales G Douglas Inglis Juerg Enkerli and Mark S Goettel 8 Mass Production of Entomopathogenic Hypocreales Stefan T Jaronski and Mark A Jackson 9 Methods for the Study of Entomophthorales Ann E Hajek Bernard Papierok and Jurg Advances in Microbial Control of Insect Pests R. K. Upadhyay, 2003-01-31 This book describes new approaches in insect pest management using entomopathogenic microbes bacteria viruses fungi nematodes and includes details of the molecular biology genetic engineering exploitation management and mathematical models of biocontrol It will be of interest to post graduate students

research fellows and all those working in insect pest management Plant-Nematode Interactions Sergio Molinari, 2024-03-01 This volume explores the latest advancements and techniques used by researchers to work with plant parasitic nematodes PPNs and to study their interactions with crop plants The chapters in this book cover topics such as ways to obtain samples from soil and different plant tissues rearing nematodes in greenhouse setting methods used to axenically rear nematodes in vitro Denaturing Gradient Gel Electrophoresis DGGE separation methods for ROS detection and hydrogen peroxide quantification methods to elicit plant resistance against nematodes methods for the detection of Pathogenesis Related PR genes that are the executioners of immunity in plant RKN interactions and laboratory procedures that test nematodes on their isolation count culture identification pathogenicity virulence and environmental tolerance Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough Plant Nematode Interactions is a valuable tool for any researcher interested in learning more about this interesting and developing field Proceedings of the Fourth International Congress of Nematology, 8-13 June 2002, Tenerife, Spain Roger Cook, David Hunt, 2021-11-01

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