

AN ADVANCED TREATISE
ON
Meloidogyne

VOLUME I
Biology and Control



EDITED BY
J.N. Sasser and C.C. Carter

Advanced Treatise On Meloidogyne

**Kenneth Reece Barker, Cathy Cameron
Carter, Joseph Neal Sasser**



Advanced Treatise On Meloidogyne:

An Advanced Treatise on Meloidogyne: Biology and control Kenneth Reece Barker, Cathy Cameron Carter, Joseph Neal Sasser, 1985 Importance of nematodes Taxonomic approaches Host parasite relationships Ecology Nematode management Nematology in developing countries *An Advanced Treatise on Meloidogyne: Methodology* Kenneth Reece Barker, Cathy Cameron Carter, Joseph Neal Sasser, 1985 Sampling and extraction Staining and culture Identification Assessment of economic importance Statistics and modeling **An Advanced Treatise on Meloidogyne** North Carolina State University. Department of Plant Pathology, 1985 *An Advanced Treatise on Meloidogyne* J.N. Sasser, C.C. Carter, 1985 **An Advanced Treatise on Meloidogyne** K.R. Barker, 1985 *Root-knot Nematodes* Roland N. Perry, Maurice Moens, James L. Starr, 2009 This book provides an overview chapter 1 of the general biology ecology and economic importance of root knot nematodes *Meloidogyne* spp and covers in detail the following general morphology chapter 2 taxonomy identification and principal species chapter 3 biochemical and molecular identification chapter 4 molecular taxonomy and phylogeny chapter 5 hatch and host location chapter 6 invasion feeding and development chapter 7 reproduction physiology and biochemistry chapter 8 survival mechanisms chapter 9 interactions with other pathogens chapter 10 population dynamics and damage levels chapter 11 sampling chapter 12 mechanisms and genetics of resistance chapter 13 development of resistant cultivars chapter 14 plant biotechnology and control chapter 15 complete sequence of the genomes of *M. incognita* and *M. hapla* chapter 16 biological control using microbial pathogens endophytes and antagonists chapter 17 current and future management strategies in intensive crop production systems chapter 18 and current and future management strategies in resource poor farming chapter 19 **New Zealand Journal of Crop and Horticultural Science/Experimental Agriculture**, 1988 **Compendium of Phytopathogenic Microbes in Agro-Ecology** Natarajan Amaresan, Krishna Kumar, 2025-05-24 This book offers an in depth exploration of phytopathogenic bacteria nematodes protozoa and algae within the context of agroecology Each chapter meticulously details the introduction taxonomy and diseases caused by these pathogens alongside their pathogenic mechanisms economic significance and strategies for identification and control By providing comprehensive insights into these topics the book empowers researchers to manipulate these pathogens to suit their needs Key concepts covered include the economic impact of plant pathogens on yield loss the pathogenic cycles of various microbes and effective control measures The book's expert contributors present a thorough analysis of 104 plant pathogens organized into distinct microbial groups This volume is an essential resource for understanding the complex interactions between pathogens and their host plants offering valuable knowledge for developing sustainable agricultural practices This book is an indispensable resource for postgraduate students research scholars post doctoral fellows and educators in fields such as Plant Microbiology Plant Pathology Bacteriology Protozoology Algology and Nematology As the second volume in a comprehensive three volume compendium it provides critical insights into the

economic importance of pathogens and their role in yield loss making it a must have for anyone involved in plant sciences

Breeding And Protection Of Vegetables M. S. Rana,2011-01-15 The book has been written in a very simple and easily understandable language The information given in this book is based on systematically and scientifically designed field and laboratory experiments conducted in various ecological zones It is believed that this book will serve the scientific society in a variety of ways Undergraduate and postgraduate students professors teachers scientists and researchers having their interests in different fields of specialization will certainly be benefited The book covers articles written by well known authorities in respective fields

Integrated Management and Biocontrol of Vegetable and Grain Crops Nematodes A. Ciancio,K.G. Mukerji,2007-12-08 The second volume of the IMPD series describes aspects related to the most important phytoparasitic nematodes considering the integration of biological control methods with other management practices and technologies including the use of predatory nematodes and microbial rhizosphere antagonists A focus is given on regional issues A review on nematode management in cotton is integrated by a chapter on management of nematodes on wheat New technologies are also revised

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