

PLANT PARASITIC NEMATODES IN SUBTROPICAL AND TROPICAL AGRICULTURE

3rd Edition

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 **CABI**

Plant Parasitic Nematodes In Subtropical Agriculture

**Z. X. Chen, S. Y. Chen, Donald Ward
Dickson**



Plant Parasitic Nematodes In Subtropical Agriculture:

Plant Parasitic Nematodes in Subtropical Agriculture Richard A. Sikora, 1990 **Plant Parasitic Nematodes in Subtropical and Tropical Agriculture, 3rd Edition** Richard A Sikora, Danny Coyne, Johannes Hallmann, Patricia Timper, 2018-08-10 Covering all aspects of practical plant nematology in subtropical and tropical agriculture the third edition of this definitive global reference work is fully revised and in full colour throughout It covers the presence distribution symptomology and management of all economically important plant parasitic nematodes damaging the world's major food and cash crops This includes rice cereals solanum and sweet potatoes and other root and tuber crops food legumes vegetables peanut citrus fruit tree crops coconut and other palms coffee cocoa tea bananas sugarcane tobacco pineapple cotton other tropical fibres spices and medicinal plants New content for this edition includes A chapter on nematode soil biodiversity and soil health Reflections on the future impact of nematodes and nematology on food security The importance of climate change emerging threats and new management technologies for large and small subsistence growers Significant revisions to the IPM chapter and chapters on vegetables citrus legumes tuber crops cotton peanut and banana where major advances in nematode management have occurred This book is highly illustrated with up to date practical guidance on methods of extraction processing and diagnosing of different plant and soil nematodes and on integrated pest management It remains an invaluable resource for those studying and working in the area of crop protection *Integrated Management of Fruit Crops and Forest Nematodes* Aurelio Ciancio, K.G. Mukerji, 2009-03-15 This series originated during a visit of prof K G Mukerji to the CNR Plant Protection Institute at Bari Italy in November 2005 Both editors convened to produce a series of five volumes focusing in a multi disciplinary approach on recent advances and achievements in the practice of crop protection and integrated pest and disease management This fourth Volume deals with management of nematodes parasitic of tree crops and includes a section on tropical fruit crops and commodities as well as a second section on tree crops from more temperate areas The latter also includes a chapter updating the current knowledge about the pine wood nematode *Bursaphelenchus xylophilus* Volume 4 flanks Volume 2 of this IMPD series which focused on management of vegetable and grain crops nematodes Nematodes are a very successful diversified and specialised animal group present in nature in any ecological niche Among nematode species only a reduced number feeds on plants of which a few species cause severe economic impacts on crop productions Plant parasitic nematodes represent an important concern for a broad range of agricultural productions and systems worldwide This statement explains the attention devoted in last decades to nematodes and the research and technical efforts invested for their control Plant-Parasitic Nematodes of Coffee Ricardo M. Souza, 2008-09-02 When I conceived this book what I had in mind was what I did not know about coffee parasitic nematodes CPNs Indeed after reading many papers and several chapters in books I felt far from having a comprehensive understanding of the subject Not only would it be a daunting task to retrieve the numerous articles reports theses and dissertations on CPNs

published since 1878 but it would also be impossible to learn on my own from all the enormous experience acquired by nematologists and coffee growers in so many countries Therefore this book is dedicated to those with restless minds who want to know more about CPNs and their importance in coffee production worldwide This book has been diligently written by top scientists in their areas of expertise or country and it has been meticulously edited to guarantee precision without compromising an enjoyable read I learned a lot from this book I m sure you will too Finally I d like to thank Zuzana Bernhart from Springer who believed in this project and decided to publish it Susan Casement who revised all chapters for grammatical correctness and all the contributors without whom this book would never have become a reality Campos dos Goytacazes RJ Brazil Ricardo M Souza vii Contents Part I The Crop 1 Coffee The Plant and its Cultivation 3 Henrique D Vieira 2 The Coffee Industry History and Future Perspectives 19 Denis O Seudieu Part II The Root Lesion Nematode *Pratylenchus* spp **Handbook of Invasive Plant-Parasitic Nematodes** Ziaul Haque,Mujeebur Rahman Khan,2021-09-01 Plant parasitic nematodes are major pests of agricultural crops and cause huge monetary losses There is a very high risk of spread of plant parasitic nematodes from one country to another with the movement of plants and planting materials such as seeds bulbs corms suckers tubers rhizomes rooted plants nursery stock and cut flowers In view of the large quantities and the wide variety of materials being imported and exported it is important to assess the status of invasive nematodes and their quarantine importance in relation to agricultural trade This book contains information on around 100 invasive nematodes and their potential threat in different countries Each nematode entry includes information on authentic identification geographical distribution risk of introduction host ranges symptoms biology ecology planting material liable to carry the nematode s nematode vectors chance of establishment likely impact and phytosanitary measures There are detailed accounts of diagnosis procedures including sampling isolation detection and identification of nematodes based on morphological and molecular characters The book offers a global perspective on invasive plant parasitic nematodes and useful for practitioners professionals scientists researchers students and government officials working in plant quarantine and biosecurity

Nematode Disease Complexes in Agricultural Crops Mujeebur Rahman Khan,2025-07-01 Plant diseases where two or more pathogens are involved in the infection process are commonly termed as complex and their diagnosis and subsequent control become more complicated and challenging A disease complex is produced through synergistic interaction between pathogens such as plant nematodes and soil borne fungi or bacteria Disease complexes which result from the interaction between nematodes and other pathogens are found on a range of agricultural crops globally and cause great crop damage Some pathogens e g *Fusarium* *Xanthomonas* etc become more aggressive in cohabitation with nematodes even if the inoculum density is low or the host cultivar is resistant Plant nematodes can also act as vectors and carry fungi and bacteria to the susceptible tissue or introduce plant viruses into the host Some nematodes also need a vector for their spread causing serious diseases like pine wilt and red ring *Nematode Disease Complexes in Agricultural Crops* discusses the roles plant

nematodes may play in the formation of a disease complex It provides an account of the agricultural significance aetiology and epidemiology of important disease complexes and their management strategies based on integration of conventional current and innovative approaches Nematode Diseases of Crops and Their Sustainable Management Mujeebur Rahman Khan, Marisol Quintanilla, 2023-04-19 Nematode Diseases of Crops and their Sustainable Management focuses on methods to recognize and identify nematode attackers in agriculturally important crops offering ecologically sustainable and economically viable strategies and measures for the management of nematode infestations and diseases The book analyzes nematode pests as major constraints in global crop production and explores the limitations of existing nematode management technologies It offers comprehensive information through individually focused chapters on major nematode problems in internationally important food fiber and beverage crops as well as in mushrooms polyhouse agriculture and forest flora with regard to distribution and much more In view of the highly damaging nature of the disease complexes and complexity in their management independent chapters on nematode fungus and nematode bacteria disease complexes and their management are also presented Presents in depth information on the synergistic interaction of nematodes with other plant pathogens and the resulting disease complexes Focuses on sustainable and economically viable approaches to nematode disease management Includes coverage of regulatory concerns and challenges Cell Biology of Plant Nematode Parasitism R. Howard Berg, Chris Taylor, 2008-12-18 Plant parasitic nematodes are among the most destructive plant pathogens causing enormous losses to agronomic crops worldwide This book provides an up to date review of research related to two of the most important nematode pests root knot and cyst nematodes Chapters cover early plant nematode interactions identification of nematode proteins important in the establishment of nematode feeding sites and classification of biochemical and signaling pathways significant in the development of specialized feeding sites in the host The cellular and subcellular structures essential for the parasitic interaction are examined by light and electron microscopy Modern techniques of gene expression analyses and genomic sequencing are poised to provide an even greater wealth of information to researchers enabling them to develop and examine natural and manmade mechanisms of resistance to this important plant pest

Management of Nematode and Insect-Borne Diseases K. G. Mukerji, Geeta Saxena, 2024-11-01 A comprehensive resource for students and researchers Management of Nematode and Insect Borne Plant Diseases examines the various aspects of disease control from an international perspective Leading academics and researchers around the world address the microbial control of insect pests the use of nematophagous fungi and biofumigation in the control of plant parasitic nematodes the use of genetically manipulated microbes and the biology and control of vectors Management of Nematode and Insect Borne Plant Diseases provides detailed descriptions of the management of diseases caused by insects and by plant parasitic nematodes This unique book includes in depth examinations of the use of arthropod microbial control agents the biology and control of bacteria the use of living and synthetic mulches the genetic transformation of microbial control agents the integrated use of

different control options the use of nematophagus fungi as a control agent the use of biofumigation potato early dying complex host plant resistance and RNAi silencing Each chapter is written by an experienced scientist in that specific field to produce a single reference resource Management of Nematode and Insect Borne Plant Diseases includes the latest research on the development of microbial control agents against insect and mite pests up to date theory on the management of the vectors and disease in fruit and nut crops the use of mulches in the control of homopteran pests an overview of the microbial control of insect pests a look at the increasing role of biological control agents an examination of nematode resistance in vegetable crops a historical background of RNAi its biology and its function in the eukaryotic system and much more Management of Nematode and Insect Borne Plant Diseases is a comprehensive professional resource for botanists agriculturalists environmental scientists biologists zoologists ecologists entomologists plant pathologists horticulturalists plant protection scientists and biotechnologists

Nematology Z. X. Chen, S. Y. Chen, Donald Ward Dickson, 2004-10-28 Nematodes are the most abundant and diversified group in the animal kingdom with four out of five animals on earth being nematodes Nematology was first recognised as an independent discipline during the early part of the century and since that time has made unparalleled advances to become an integral part of biological sciences Written as two volumes this title provides a broad overview of our current knowledge of nematology The first volume addresses basic biology while this second volume covers applied aspects of nematodes as parasites of plants humans and other animals or as disease vectors and the control of pest nematodes The contributors to this work include the world's leading authorities from Australia Brazil Canada France New Zealand UK and USA It will provide essential reading for researchers and students with an interest in nematology

Novel Biological and Biotechnological Applications in Plant Nematode Management Mujeeb Rahman Khan, 2023-11-08 The volume focuses on novel and effective biological and biotechnological methods for managing major plant parasitic nematodes in economically important agricultural crops Nematodes develop a wide variety of interactions with soil microbes and host plants and cause enormous losses in crop yields equivalent to around USD 173 billion annually In view of growing concern for pesticide contamination in crops coupled with ban on several efficacious pesticides and increasing demand for organic foods the biological and biotechnological approaches offer a good alternative to chemicals for managing nematode infestations in agricultural crops The book embodies twenty two chapters which are arranged in two groups The first group covers different novel methods of nematode management such as biotechnological biopesticides microbial consortia host resistance omics technology transgenics nano nematocides nano diagnosis etc The second groups of chapters describe important nematode problems in major crops such as cereals vegetables pulses spices wood yielding conifers etc Overall the book collates the latest information on above topics and offers practical solutions to the limitations and challenges in the existing management technologies This book is of interest and serves up to date and elaborated information to agriculture researchers teachers scientists under graduates post graduates plant nematologists plant

pathologists plant protectionists agronomists horticulturalists helminthologists extension workers and NGOs *Nematodes - Ecology, Adaptation and Parasitism* Soumalya Mukherjee, Sajal Ray, 2024-02-28 *Nematodes Ecology Adaptation and Parasitism* is a collection of high impact scientific chapters written by eminent researchers from all over the globe The book discusses frontier areas of nematode biology including ecological features adaptability power and parasitic nature of Phylum Nematelminthes The authors report on the comparative diversity abundance and bioindicative capabilities of nematode community structures in natural and contaminated habitats The book also examines topics such as ecological significance and potential implications of entomopathogenic nematodes on sustainable pest control management the parasitic adaptation of plant parasitic nematodes and their interaction with other microorganisms It also discusses the application of a new generation of chemical nematicides and herbal nematicides to control plant parasitic nematodes This book is a valuable resource on the biology of nematodes and is useful for students researchers and scientists working in nematology **Plant Nematology in Ghana** Seloame Tatu Nyaku, Francis Collison Brentu, 2022-02-02 This book focuses on nematode parasitizing crop plants grown in Ghana and the West Africa sub region It offers information on nematode types and their population densities in both soil and root samples on selected crops cultivated in Ghana with particular focus on nematodes of tree crops vegetables fruits and other crops *Proceedings of the Fourth International Congress of Nematology, 8-13 June 2002, Tenerife, Spain* Roger Cook, David Hunt, 2021-11-01 **Management of Phytonematodes: Recent Advances and Future Challenges** Rizwan Ali Ansari, Rose Rizvi, Irshad Mahmood, 2020-06-29 This book illustrates the currently available strategies for managing phytonematodes It discusses the latest findings on plant pathogen microbiome interactions and their impacts on ecosystems and provides extensive information on the application of microorganisms in the sustainable management of phytonematodes This is followed by an in depth discussion of the application of potential strains of biocontrol fungi endophytes and actinomycetes to enhance plants ability to fend off phytonematode attacks leading to improved plant health In conclusion the book addresses new aspects like the biofabrication of nanoparticles and their application in plant disease management and presents an extensive list for further reading *Nematology in South Africa: A View from the 21st Century* Hendrika Fourie, Vaughan W. Spaull, Robin K. Jones, Mieke S. Daneel, Dirk De Waele, 2017-02-28 This unique book contains not only a comprehensive up to date summary of the achievements made in all areas of Nematology in South Africa over more than half a century but it also combines this rather technical part with an insiders narrative of how Nematology started and developed It also demonstrates how the South African community of nematologists gradually adapted to major changes in agriculture These were due to a major political shift followed by socio economic changes and this in an often challenging natural environment At the same time this book is conceived as a useful source for young scientists to provide them with practical knowledge and critical insight in the field of Nematology The information given is based primarily on research conducted by nematologists in South Africa Most of this research was aimed at finding workable solutions for nematological

problems confronted by both large scale commercial producers and smallholding farmers During a period when funding for scientific research is becoming increasingly scarce the future demand and quest for practical solutions by applied research will only increase

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

Root-Galling Disease of Vegetable Plants Faheem Ahmad, Gloria Nombela Blázquez, 2023-11-22 This book provides the most comprehensive and up to date review of research on vegetable plants associated with root galls disease caused by root knot nematodes RKNs *Meloidogyne* spp Vegetables retain a key position in cultural cuisines and their consumption worldwide due to rich sources of micronutrients including vitamins minerals and antioxidants but root galls disease of these crops caused by RKNs steals both quantity and quality from production The field of plant nematology has experienced exponential growth over the past decade and these RKNs are now known as widely damaging obligate plant parasites of vegetable plants Advances are being made in understanding their biology parasitism in the root system giant cell development root gall formation chemical signalling root knot disease complexes and management systems This compilation provides an invaluable resource for studying root galls disease of vegetable plants to those readers associated with plant nematology plant pathology plant protection and agricultural science including researchers teachers advanced undergraduates and graduate students and even agricultural extension agents and farmers

Plant Nematology, 3rd Edition Roland N. Perry, Maurice Moens, John T. Jones, 2024-07-12 Plant parasitic nematodes are a major threat to crop production in all countries and identification of nematodes and knowledge of their biology is of paramount importance Providing a broad introduction to nematodes as plant parasites this book begins by describing nematodes by genera and then builds on this foundation to detail nematode biology and pest management including resistance and biological and chemical control This 3rd edition is updated to address

advances in our knowledge of plant parasitic nematodes particularly concerning the molecular aspects of host parasite relationships including the application of genomics to nematode biology Changes in control and management strategies are also covered The influence of climate change on plant parasitic nematodes is addressed in a new chapter on ecology Primarily aimed at students MSc and PhD this book is also invaluable for researchers and lecturers in nematology plant pathology and parasitology advisory and quarantine services and crop protection scientists

Organic Production of Vegetable Crops M. K. Rana, PhD, 2025-07-16 Organic vegetable farming involves the use of biological resources and avoiding the use of synthetic substances for maintaining soil productivity and ecological balance thereby minimizing wastage and environmental pollution This new book provides a comprehensive introduction and covers a wide range of topics on successful production of organic vegetable crops The book introduces the concepts importance and scope of organic farming highlighting best practices and the do s and don ts It then goes on to cover crucial topics on organic vegetable production including methods for enhancing soil fertility green manuring role of biofertilizers composting methods agricultural waste coir composting biodynamic vegetable farming botanical and biocontrol agents and much more The book also explores important subjects in organic farming such as the potential of zero budget natural farming nonconventional vermicomposting in organic farming biodynamic vegetable farming plant disease management and processing and quality control for organic foods In addition the book discusses the export opportunities and challenges faced in organic farming

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