




Root Parasitic Nematodes

**E. E. Lewis, J. F. Campbell, M. V. K.
Sukhdeo**



Root Parasitic Nematodes:

Root Parasitic Nematodes Krall, 2023-04-12 This book discusses the morphology taxonomy and ecology of nematodes of the family Hoplolaimidae which are parasites of higher plants The taxonomic section contains keys to sub families 9 genera and 199 species together with their descriptions The book is richly illustrated **Root Parasitic Nematodes** E. L. Krall, 1990

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

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 **Systematics of Root-knot Nematodes (Nematoda: Meloidogynidae)** Sergei A. Subbotin, Juan Emilio Palomares Rius, Pablo Castillo, 2021-08-04 Root knot nematodes of the genus *Meloidogyne* represent one of the most damaging and agricultural important group of plant parasitic nematodes These nematodes are obligate sedentary endoparasites infecting most species of higher plants and have a cosmopolitan distribution Annual

worldwide economic losses due to nematode infection of crops have been estimated at several hundred billion US dollars This book is the first complete illustrated compendium of root knot nematode species and contains 98 species descriptions with comprehensive diagnoses information on biology plant hosts pathogenicity symptoms distribution and biochemical and molecular diagnostics It also includes introductions into morphology biology biogeography genomics phylogeny and host parasite relationships of root knot nematodes Plant Parasitic Nematodes in Sustainable Agriculture of North America Sergei A. Subbotin, John J. Chitambar, 2018-12-17 Plant parasitic nematodes are recognized as one of the greatest threats to crop production throughout the world Estimated annual crop losses of 8 billion in the United States and 78 billion worldwide are attributed to plant parasitic nematodes Plant parasitic nematodes not only cause damage individually but form disease complexes with other microorganisms thereby increasing crop loss Nematode diseases of crops are difficult to control because of their insidious nature and lack of specific diagnostic symptoms which closely resemble those caused by other plant pathogens and abiotic diseases Future developments of sustainable management systems for preventing major economical agricultural losses due to nematodes is focused on strategies that limit production costs enhance crop yields and protect the environment This book presents a first compendium and overview for nematode problems and their management across North America Each chapter provides essential information on the occurrence and distribution of plant parasitic nematodes their major crop hosts impact on crop production and sustainable management strategies for each region of the continent including Canada Mexico and all states of the USA For each region a thematic overview of changes in crop production affected by plant parasitic nematodes and their management strategies over time will provide invaluable information on the important role of plant parasitic nematodes in sustainable agriculture **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 Parasitic Nematodes Malcolm W. Kennedy, William Harnett, 2013 Covering a wide range of rapidly developing fields of research into parasitic nematodes this comprehensive volume discusses the genetics biochemistry and immunology of nematode parasites of humans as well as domestic animals and plants This fully updated edition also covers new advances including horizontal gene transfer immune expulsion mechanisms genetics of susceptibility in humans nematode protein structures role of bacterial symbionts intrinsic immune response host immune system modulation modulation of allergic and autoimmune diseases and the use of parasitic nematodes or their products as therapeutics **Biological Control of Plant-Parasitic Nematodes:** Keith Davies, Yitzhak Spiegel, 2011-06-27 The offered volume intends to review the biological control theme of phytonematodes from several prospects ecological applicative as well as commercial state of the art understanding the mode of action of various biocontrol systems interaction between the plant host nematodes surface and microorganism s candidates for biocontrol extrapolation of the wide knowledge existed in another systems for understanding biocontrol processes *C. elegans* as a model and lessons from other natural systems and exploiting advanced genomic tools to promote understanding biocontrol processes and thereafter improve specific biological control agents **Biological Control of Plant-parasitic Nematodes, 2nd Edition** Graham R Stirling, 2014-05-14 Plant parasitic nematodes are one of multiple causes of soil related sub optimal crop performance This book integrates soil health and sustainable agriculture with nematode ecology and suppressive services provided by the soil food web to provide holistic solutions Biological control is an important component of all nematode management programmes and with a particular focus on integrated soil biology management this book describes tools available to farmers to enhance the activity of natural enemies and utilize soil biological processes to reduce losses from nematodes *The Plant-Parasitic Nematode Genus Meloidogyne Göldi, 1892 (Tylenchida) in Europe* Gerrit Karssen, 2021-08-04 The genus *Meloidogyne* G ldi 1892 or root knot nematodes represent a relatively small but economically important group of obligate plant pathogens They are distributed worldwide and parasitize on almost every higher plant species While reproducing and feeding within roots they induce galls or root knots and disorder the physiology of the infected plant reducing crop yield and product quality More than eighty nominal species have been described worldwide while twenty species have been detected in Europe so far This book includes a historical review on the genus followed by a revision of the European species and completed with a study on one of the most characteristic morphological structures within the genus the perineal pattern **Protecting Our Crops - Approaches for Plant Parasitic Nematode Control** Claudia S. L. Vicente, Koichi Hasegawa, Juan Emilio Palomares-Rius, Shahid Siddique, 2021-11-15 **Plant-parasitic and Entomogenous Nematode Research** ,1991 Nematode Behaviour Randy Gaugler, Anwar L. Bilgrami, 2004 Nematode worms are among the most ubiquitous organisms on earth They include free living forms as well as parasites of plants insects humans and other animals In recent years there has been an explosion of

interest in nematode biology including the area of nematode behaviour The latter has however until now not been synthesized into a single comprehensive volume Nematode Behaviour seeks to redress this imbalance by providing the first comprehensive review of current knowledge of the behaviour of nematodes Key topics including locomotion and orientation feeding and reproductive behaviour and biotic and abiotic interactions are reviewed by leading authorities from the USA UK India and New Zealand

Bibliography of Agriculture ,1972 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

Nematodes in Phytobiomes Holger Heuer,Andreas Westphal,Stefan Schrader,Danny Coyne,Mette Vestergård,Johannes Hallmann,A. Sylvia S. Schleker,Bing Yang,Amir Szitenberg,2021-04-21 *Plant Parasitic Nematode-Host Interactions: Mechanisms and Exploitative Management Strategies* Andressa Machado ,Mario Massayuki Inomoto,Victor Hugo Moura De Souza,James Price,2025-01-23 Plant parasitic nematodes PPN are pathogens common in global agricultural systems There is at least one species of PPN for all major food crops and yield losses caused by nematodes threaten global food security Management of PPN is challenging and varies greatly between different countries crops and nematodes However a recurring theme for management is improving understanding of the nematode host interaction Exploiting this information could help create better PPN control methods lessening losses associated with PPN by providing more economical and sustainable solutions Interpreting mechanisms fundamental to host parasite interactions is a rapidly evolving area This research offers novel insights about PPN biology and potential routes for exploiting this data for the development of improved PPN control Nematode effector proteins are core components of parasitism and disease development Resistant plants can suppress PPN through a variety of different mechanisms upon recognition of effectors Understanding targets of these proteins and modifying them using gene editing techniques could assist host resistance

The Behavioural Ecology of Parasites E. E. Lewis,J. F. Campbell,M. V. K.

Sukhdeo,2002-07-17 Parasites have evolved numerous complex and fascinating ways of interacting with their hosts The subject attracts the interest of numerous biologists from the perspective of ecology and behavioural biology as well as from those concerned with more applied aspects of parasitology However until now there has been no recent book to synthesize this field This book written by leading authorities from the USA Europe Australia and New Zealand provides the most comprehensive coverage of this important topic on the market **Studies Upon the Plant Parasitic Nematodes and Their Control** Luther P. Byars,1914

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