

## Systematics of Root-knot Nematodes (Nematoda: Meloidogynidae)

Sergei A. Subbotin,  
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and Pablo Castillo



Series Editors: David J. Hunt and Roland N. Perry

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# Root Knot Nematodes Meloidogyne Species Systematics Biology And Control

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



## **Root Knot Nematodes Meloidogyne Species Systematics Biology And Control:**

Root- Knot Nematodes F. Lamberti, 1979      **Root-knot Nematodes (Meloidogyne Species)** Franco Lamberti, Charles E. Taylor, 1979      **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 agriculturally 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.      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.      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 microorganisms; 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 *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

**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 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 Soil Biology Guide Daniel L. Dindal,1991-01-16 A comprehensive study of the biology taxonomy and ecology of each of the soil biotic groups The first chapter presents an ecological approach to soil studies The remaining 42 chapters provide specific information on each of the taxonomic groupings Contains illustrated identification keys to each group Some keys go by functional morphological delineations others lead the reader to classical identification at family genus or species levels Some incorporate descriptions of new genera and species Especially useful for the study of mesic xeric and hydric terrestrial sites Includes an extensive bibliography **Tylenchida** Mohammad Rafiq Siddiqi,2000 The increasing use of integrated crop management often requiring a reduction in the reliance upon chemical control means that the need to rapidly identify pest nematodes has never been greater This second edition of this standard reference work familiar to all plant nematologists is therefore even more useful than its predecessor published in 1986 The in depth description of the life histories of the genera of the Tylenchida have been retained and brought up to date through the inclusion of all the research carried out between the publication of the last edition and this new edition This expanded edition includes detailed diagnoses of well over 200 genera and familial and ordinal groups and is well illustrated with drawings of type or representative species These together with comprehensive lists of species and genera and their synonymies provide the foundation for the status and validation of each taxon within the Tylenchida A considerable amount of information is provided regarding the biology ecology and pathogenicity of these parasites **Nematode Interactions** M. Wajid Khan,2012-12-06 Nematode interactions are important biological phenomena and of great significance in agriculture It is a

fascinating subject which is multidisciplinary by nature and concerns any scientist involved with plant health. There have been marked advances in our knowledge of various aspects of the subject in the last two decades. This study area has been the subject of several reviews but there was no exclusive text on the subject. This has stressed the need to document the information developing a unifying theme which treated nematode interactions in a holistic manner. This book is about the interaction of plant parasitic nematodes with other plant pathogens or root symbionts, the nature of their associations, their impact on the host and consequential interactive effects on the involved organisms. Since nematodes are at the centre of the theme, the responsibility of understanding of other plant pathogens dealt with in this book is largely delegated to the reader. I have limited the book content to interactions with biotic pathogens and root symbionts only for various reasons. The book embodies 16 chapters and attempts to present balanced information on various aspects of nematode interactions with other plant pathogens and root symbionts. Some chapters describe general aspects of the subject. Interactions of nematodes with specific groups of organisms are addressed in the remaining chapters.

**Onions and Allied Crops** James L. Brewster, Haim D. Rabinowitch, 2022-07-30 Originally published in 1990, *Onions and Allied Crops* is a comprehensive account of the edible allium examined across three volumes. The collection examines the major economic and dietary importance of edible alliums in most countries and brings together contributions from experts across multiple disciplines including food scientists, economists, agriculturalists and biochemists. These books address selection and breeding of locally adapted cultivars and the development of cultural techniques allowing for cultivation across the tropics to the sub-arctic regions. As such, the collection examines the allium as a major agricultural asset and the impact this has had on many economies. These volumes will be of use and of interest to food scientists, economists, agriculturalists and biochemists alike.

*Durable Resistance in Crops* F. Lamberti, J. M. Waller, N. A. Van der Graaff, 2012-12-06 Plant diseases and pests are a major constraint to agricultural production despite the various measures used to control them. Chemical control, although often effective, may pose environmental hazards and is relatively expensive, especially in developing countries where it may be completely uneconomic. Control through genetically mediated resistance to diseases and pests is both cheap and environmentally safe and, at present, most diseases and pests of staple food crops are controlled through some form of resistance. One of the basic problems in the use of resistance is its frequent lack of durability; very often a type of resistance is used that breaks down after a certain period. The temporary nature of this resistance, due to the development of new strains of pest or pathogen able to overcome it, has seriously hindered the improvement of the yield potential of many crops as a continuing effort is needed to replace old cultivars whose resistance has failed with new ones. Following Vanderplank's now classical publications (1963, 1968) which differentiated horizontal and vertical resistance, studies on several host-parasite systems have shown that different types of resistance can be distinguished genetically and epidemiologically and on the ability of the pests or pathogens to adapt to them. A knowledge of how resistance operates at the population level has also opened up possibilities of managing relatively simple

resistance types in such a way that a stable host pathogen system can be produced with a minimum of crop loss *Green Chemistry in Agriculture and Food Production* Vinay Kumar, Kleopatra Tsatsaragkou, Nilofar Asim, 2023-03-10 Green chemistry is a vital subject playing a key role in environmental sustainability. Despite its importance, very little has been explored in the past years. This book is a comprehensive compilation of the methods, techniques, and strategies used in green chemistry. The book highlights some critical aspects of green chemistry related to agriculture and food production. It has been put together for undergraduate, graduate, and postgraduate students. Each chapter has been cited with new and updated research discoveries to help the postgraduate and doctorate students and researchers. I hope the presented book will be an important tool for students and researchers. **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 nematophagous 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. 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.

*General Nematology* A. Maggenti, 2012-12-06 This text is an overall view of nematology because I believe the science should be treated as a unified discipline. The differences in the biological habits of nematodes do not justify the separation of plant nematologists and animal nematologists since the separation is not a reflection of any differences inherent to

nematodes Therefore the book is arranged with a format that in the beginning chapters illustrates the similarities and sequence of development of morphological characters among nematodes regardless of their biological habits The later chapters illustrate the integration of the evolutionary development of the parasitic habit from related free living forms Nematology is probably the last major discipline to establish its independence from the parent science of zoology This natural evolution of nematology has occurred because of the overwhelming accumulation of sophisticated information and research that reflects the unique relationships of nematodes to other forms of plant and animal life as well as their relationships in other facets of the environment Nematodes are invertebrate animals that like insects are unusual in their great numbers and varieties their small size generally microscopic their high degree of internal organization and their virtually ubiquitous distribution They occupy almost every ecological niche often causing disease of humans other animals and plants These activities often result in debility death or in the impairment and loss of food supply with consequent loss to producers and consumers

The Peach Desmond R. Layne, Daniele Bassi, 2008 This book summarizes current state of knowledge in peach botany production and postharvest management Specific topics covered consisted of botany and taxonomy chapter 1 history of cultivation and trends in China chapter 2 classical genetics and breeding chapter 3 genetic engineering and genomics chapter 4 low chill cultivar development chapter 5 fresh market cultivar development chapter 6 processing peach cultivar development chapter 7 rootstock development chapter 8 propagation techniques chapter 9 carbon assimilation partitioning and budget modelling chapter 10 orchard planting systems chapter 11 crop load management chapter 12 nutrient and water requirements of peach trees chapter 13 orchard floor management systems chapter 14 biology epidemiology and management of diseases caused by fungi and fungal like organisms chapter 15 diseases caused by bacteria and phytoplasmas Candidatus Phytoplasma chapter 16 viruses and viroids chapter 17 insects and mites chapter 18 nematodes chapter 19 preharvest factors affecting peach quality chapter 20 ripening nutrition and postharvest physiology chapter 21 and harvesting and postharvest handling of peaches for the fresh market chapter 22 This book aims to provide research scientists extension personnel students professional fruit growers and others with a vital resource on peach and its culture



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