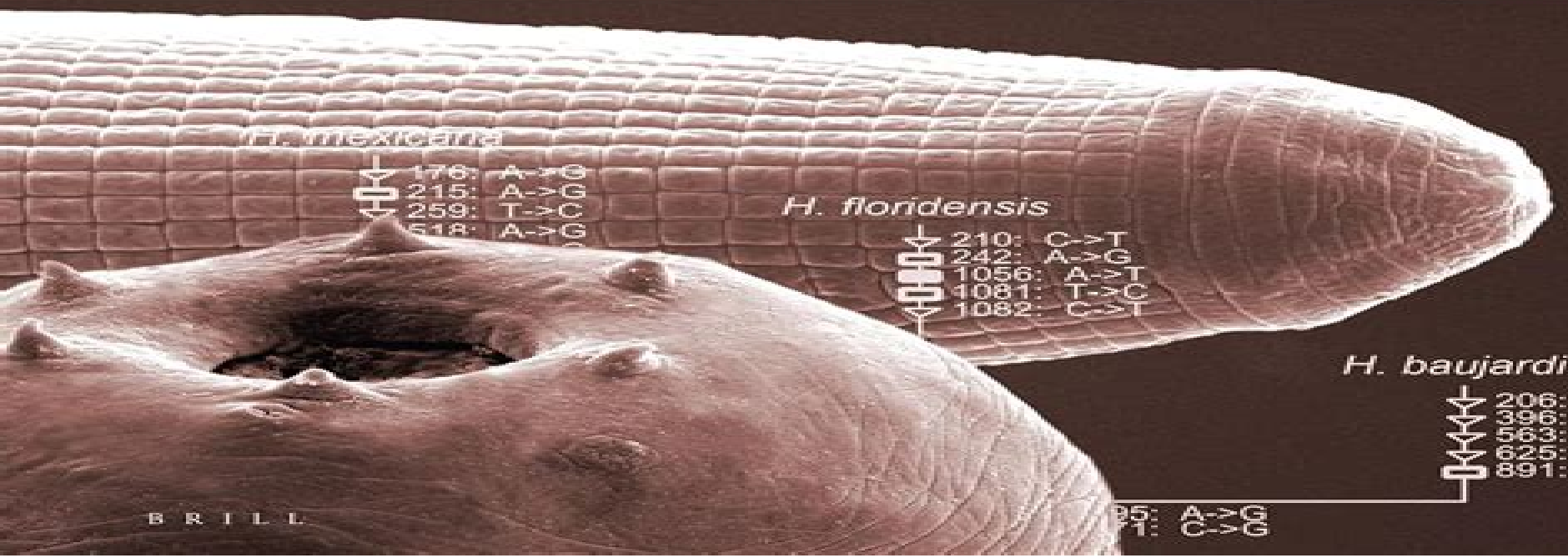


Entomopathogenic Nematodes: Systematics, Phylogeny and Bacterial Symbionts

K.B. Nguyen and D.J. Hunt (Editors)

David J. Hunt and Roland N. Perry (Series Editors)



Entomopathogenic Nematodes Systematics Phylogeny And Bacterial Symbionts Nematology Monographs And Perspectives

**Robert James Ossiboff, Nicole Indra
Stacy, Francesco Carlo Origgi**



Entomopathogenic Nematodes Systematics Phylogeny And Bacterial Symbionts Nematology Monographs And Perspectives:

Entomopathogenic Nematodes Khuong B. Nguyen,D. David J. Hunt,2007-01-01 The volume deals with morphology taxonomy and systematics of entomopathogenic nematodes EPN in the families Steinernematidae and Heterorhabditidae and bacteria associated with these nematodes In the first part history taxonomic status family and genus definitions of EPN are mentioned In the second part all useful aspects of morphology and methodology of EPN are mentioned with illustrations and SEM photographs and instructions on how to make the measurements and how to use them in taxonomic work A polychotomous key with SEM photographs and illustrations is provided In the third part full descriptions of all species are presented with latest information about each species In the fourth part molecular and phylogenetic methods for working with EPN are presented including the latest information and instructions on how to use molecular data in taxonomic work In the last part bacteria associated with this group of nematodes are discussed in the context of the latest information about methodology biology and taxon

Advances in Entomopathogenic Nematode Taxonomy and Phylogeny ,2016-10-18 In *Advances in Entomopathogenic Nematode Taxonomy and Phylogeny* the numerous species of Steinernema and Heterorhabditis described since the previous volume published in 2007 are evaluated and discussed Valid species proposed from 2007 2015 are covered in detail each taxon having an illustrated diagnostic description and additional data on molecular characterisation distribution and biology etc An addendum gives brief details of species proposed during 2016 An overview of the taxonomy of the two families provides an up to date list of species for both genera including new synonyms and detailed commentary on specific status where appropriate Tabular keys to all valid species of Steinernema and Heterorhabditis assist in diagnostics A chapter on phylogeny and phylogeography completes the book

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

Advances in Animal Experimentation

and Modeling Ranbir Chander Sobti, 2021-12-08 *Exploration in Laboratory Animal Sciences Understanding Life Phenomena* updates our knowledge about the newer technologies such as molecular biology genomics including sequencing proteomics transcriptomics cell culture stem cell culture transgenesis and their translation to understand systematics and phylogeny of laboratory animals at molecular level In seven sections *Exploration in Laboratory Animal Sciences Understanding Life Phenomena* resolves issues of conservation applications in environment monitoring production of drugs and others Comparative research has enabled use of domestic animal models that translate the advances in basic biosciences to the schemes for human welfare including medicine Molecular geneticists are unravelling the complexities of mammalian genes and the field of biotechnology is maturing at a fast pace Additionally research focused on immunology and animal behavior offer new insight into ways of enhancing animal welfare The rise in consumption of animal proteins in addition to the challenges of sustaining our natural resources has given animal scientists a vast array of opportunities to engage in integrative systems based research for meeting the challenges that behold us *Exploration in Laboratory Animal Sciences Understanding Life Phenomena* also discusses the manipulation of animals as factories for the production of safe foods drugs and sensors and others to meet the contemporary challenges faced by mankind in the new world order created by pandemic of Covid 19 It also includes several chapters on the causation and management of certain diseases and impact of microbes on life Provides insight to newer and futuristic technologies to understand disease process and drug design by animal models Addresses a wide variety of species and covers a wide variety of topics such as animal species the laboratory setting regulatory guidelines and ethical considerations to fully prepare for work with all types of animals Gives a perspective on laboratory animal use that allows to explain the benefits of animal use as required by veterinary technology program accreditation procedure Includes examples of animal bio technological techniques including stem cell and tissue engineering for their applications to humanity Offers new insight into ways of enhancing animal welfare by the inclusion of research results focused on immunology and laboratory animal behavior

Integrated Pest Management (IPM) Harsimran

Gill, Goyal, 2016-08-31 This book is an update on environmentally sound pest management practices under the umbrella of integrated pest management IPM It consists of seven contributions from different authors providing information on pest management approaches as chemical alternatives The book chapters detail about historical review of IPM concepts strategies and some experiences in applications of IPM in Latin America pest control in organic agricultural system and the use of entomopathogenic and molluscoparasitic nematodes insect pheromones semiochemicals detergents and soaps as a part of IPM scheme The goal of this book is to provide the most up to date review on information available around chemical alternatives in IPM Therefore this book will equip academia and industry with adequate basic concepts and applications of IPM as eco friendly pest management option *Techniques for Work with Plant and Soil Nematodes* Roland N. Perry, David J. Hunt, Sergei A. Subbotin, 2020-11-26 Plant parasitic and free living nematodes are increasingly important in relation to food

security quarantine measures ecology including pollution studies and research on host parasite interactions Being mostly microscopic nematodes are challenging organisms for research Techniques for Work with Plant and Soil Nematodes introduces the basic techniques for laboratory and field work with plant parasitic and free living soil dwelling nematodes Written by an international team of experts this book is extensively illustrated and addresses both fundamental traditional techniques and new methodologies The book covers areas that have become more widespread over recent years such as techniques used in diagnostic laboratories including computerized methods to count and identify nematodes Information on physiological assays electron microscopy techniques and basic information on current molecular methodologies and their various applications is also included

Plant Biotic Interactions Ajit Varma, Swati Tripathi, Ram Prasad, 2019-11-28 This book highlights recent advances in the field of plant biotic interactions and explores current serious issues in the crop production industry It is intended to attract more attention to these important but often overlooked areas and to stimulate new ideas for future research Plants are constantly under attack by pathogens pests and parasites which can significantly impact worldwide food production and human health While pathogens and pests attack and interconnect with their hosts in a variety of ways plants have developed sophisticated immune systems to fight infections In the field of plant biotic interactions most of the studies to date have focused on the function and signaling pathways of plant disease resistance proteins and pattern recognition receptors as well as pathogen effector proteins In contrast this book presents new and emerging research areas and introduces students researchers academics and policy advisors to the latest trends in e g microbial technology environmental microbiology agricultural science the health sciences biological sciences and other related disciplines

Biotechnology in Action: Unveiling Nature's Potential 2 Murat ÖZDAL, Sümeyra GÜRKÖK, 2024-11-01

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 in Free-Ranging and Captive Wildlife** Robert James Ossiboff,Nicole Indra Stacy,Francesco Carlo Origgi,2021-02-24

Practical Plant Nematology Rosa H. Manzanilla-López,David Hunt,Nahum Marbán-Mendoza,Said Infante-Gil,Said Infante,2025 New edition of an introductory text in practical nematology aimed at students and practitioners It provides a practical overview of crop protection and phytopathology Provided by publisher **Harnessing Useful Rhizosphere Microorganisms for Pathogen and Pest Biocontrol** Aurelio Ciancio,Corné M.J. Pieterse,Jesús Mercado-Blanco,2017-01-10 Growing demographic trends require sustainable technologies to improve quality and yield of future food productions However there is uncertainty about plant protection strategies in many agro ecosystems Pests diseases and weeds are overwhelmingly controlled by chemicals which pose health risks and cause other undesirable effects Therefore an increasing concern on control measures emerged in recent years Many chemicals became questioned with regard to their sustainability and are or will be banned Alternative management tools are studied relying on biological and low impact solutions This ResearchTopic concerns microbial biocontrol agents root associated microbiomes and rhizosphere networks Understanding how they interact or respond to a biotic environmental cues is instrumental for an effective and sustainable impact The rhizosphere is in this regard a fundamental object of study because of its role in plant productivity This e book provides a polyhedral perspective on many issues in which beneficial microorganisms are involved Data indeed demonstrate that they represent an as yet poorly explored resource whose exploitation may actively sustain plant protection and crop production Given the huge number of microbial species present on the planet the microorganisms studied represent just the tip of an iceberg Data produced are however informative enough about their genetic and functional biodiversity as well as about the ecosystem services they provide to underp in crop production Challenges for future research work concern not only the biology of these species but also the practices required to protect their biodiversity and to extend their

application in the wide range of agricultural soils and systems present in the world Agriculture cannot remain successfully and sustainable unless plant germplasm and useful microbial species are integrated a goal for which new knowledge and information based approaches are urgently needed *Aphelenchida, Longidoridae and Trichodoridae* David J. Hunt,1993 Order aphelenchida Historical review General morphology Bionomics Sistematics and taxonomy Family longidoridae Historical review General morphology Bionomics Systematics and taxonomy Family trichodoridae Historical review General morphology Bionomics Systematics and taxonomy **Agronomía costarricense** ,2009 **Turkish Journal of Biology** ,2003 *Entomopathogenic Nematology* Randy Gaugler,2002-01-31 Nematodes that are parasites of insects are no longer a laboratory curiosity They have begun to be accepted as environmentally benign alternatives to the use of chemical insecticides for the control of insect pests Nematode worms are now applied as biological control agents against insectpests of numerous horticultural and agricultural crops This book provides a comprehensive review of entomopathogenic nematology It begins by reviewing fundamental biology and setting a taxonomic foundation for nematodes and their bacterial symbionts Several chapters are devoted to functionalprocesses involved in parasitism and to nematode ecology Later chapters describe technological advances and control methodologies Entomopathogenic Nematodes and Their Symbiotic Bacteria S. Sivaramakrishnan,M. Razia,2021-06-08 This book provides basic information and different protocols associated with the Entomopathogenic nematodes EPNs and their symbiotic bacteria Entomopathogenic nematodes EPNs of the genera Steinernema and Heterorhabditis and their associated bacterial symbionts Xenorhabdus and Photorhabdus aid nematode infective juveniles IJs in infecting and killing their insect hosts creating a unique tripartite complex of host vector symbiont interactions Due to this insect killing capability EPNs are used as biological control agents of economically important insect pests They are also a model system to study host parasite interactions It provides a systematic approach to various nematode procedures including pathogenicity reproduction foraging behaviour It gives a brief outline on historical aspects nematode bacterium complex biology and chemical ecology of EPNs It concisely describes host insect rearing nematode sampling and storage isolation techniques counting handling and staining of nematodes characterization including morphological molecular and ecological studies mass production virulence bioassay field application and efficacy The book also includes methods and techniques for their associated symbiotic bacteria This book serves as a laboratory manual and assists the readers to undertake advanced research in different aspects related to nematodes It is useful for researchers in the fields of nematology microbiology bacteriology and entomology **Utilization of Phylogenetic Systematics, Molecular Evolution, and Comparative Transcriptomics to Address Aspects of Nematode and Bacterial Evolution** Scott M. Peat,2010 Both insect parasitic entomopathogenic nematodes and plant parasitic nematodes are of great economic importance Insect parasitic entomopathogenic nematodes provide an environmentally safe and effective method to control numerous insect pests worldwide Alternatively plant parasitic nematodes cause billions of dollars in crop loss worldwide

Because of these impacts it is important to understand how these nematodes evolve and in the case of entomopathogenic nematodes how their bacterial symbionts evolve This dissertation contains six chapters Chapter one is a review of DNA markers and their use in the phylogenetic systematics of entomopathogenic and insect parasitic nematodes as well as a review of phylogenetic co phylogenetic and population genetic methodologies Chapter two characterizes positive destabilizing selection on the luxA gene of bioluminescent bacteria Our data suggests that bacterial ecology and environmental osmolarity are likely driving the evolution of the luxA gene in bioluminescent bacteria Chapter 3 examines relationships among bacteria within the genus *Photorhabdus* Our analyses produced the most robust phylogenetic hypothesis to date for the genus *Photorhabdus* Additionally we show that *glnA* is particularly useful in resolving specific and intra specific relationships poorly resolved in other studies We conclude that *P. asymbiotica* is the sister group to *P. luminescens* and that the new strains HIT and JUN should be given a new group designation within *P. asymbiotica* Chapter 4 characterizes the morphology of the head and feeding apparatus of fungal feeding and insect infective female morphs of the nematode *Deladenus siricidicola* using scanning electron microscopy Results showed dramatic differences in head face and stylet morphology between the two *D. siricidicola* female morphs that were not detected in previous studies using only light microscopy Chapter five utilizes comparative transcriptomics to identify putative plant and insect parasitism genes in the nematode *Deladenus siricidicola* Results from this study provide the first transcriptomic characterization for the nematode *Deladenus siricidicola* and for an insect parasitic member of the nematode infraorder Tylenchomorpha Additionally numerous plant parasitism gene homologues were discovered in both *D. siricidicola* libraries suggesting that this nematode has co opted these plant parasitism genes for other functions Chapter six utilizes a phylogenomic approach to estimate the phylogeny of the nematode infraorder Tylenchomorpha

Systematics of Root-Knot Nematodes (Nematoda: Meloidogynidae) Sergei A. Subbotin, Juan Emilio Palomares Rius, Pablo Castillo, 2021 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

Studies on the Pesticidal Potential of Entomopathogenic Nematodes, Their Bacterial Symbionts and the Toxins They Produce Ali Murad Rahoo, 2010

Systematics of Cyst Nematodes (Nematoda: Heteroderinae), Part A Sergei A. Subbotin, Manuel Mundo-Ocampo, James G. Baldwin, 2010-08-23 Volume 8 in the series appearing in two parts A and B deals with the systematics of cyst nematodes of the subfamily Heteroderinae Cyst nematodes are important pathogens

causing extensive damage and significant yield loss to many crops in both temperate and tropical regions Part A presents summarised information on various aspects of morphology biology ecology pathology biogeography control measures and diagnostics of these nematodes Molecular diagnostic tables and comprehensive tabular and dichotomous keys for species identification together with descriptions of protocols for extraction light and electron microscopy studies and molecular diagnostics are also included The taxonomic section of part A provides diagnoses for six genera viz Globodera Punctodera Cactodera Dolichodera Betulodera and Paradolichodera and includes descriptions and morphometrics of 30 valid species The work is illustrated by 101 drawings and photos The genus Heterodera is mainly covered in part B complete descriptions and morphometrics of the 80 known valid species being provided and the species illustrated by 159 line drawings and photos Identification of the species using morphological and molecular techniques is also covered Each part includes an extensive bibliography

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