

PLANT PARASITIC NEMATODES

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and R. A. Rohde

Volume I
Morphology, Anatomy,
Taxonomy, and Ecology

Plant Parasitic Nematodes Volume 1 Morphology Anatomy Taxonomy And Ecology

Etienne Geraert



Plant Parasitic Nematodes Volume 1 Morphology Anatomy Taxonomy And Ecology:

Morphology, Anatomy, Taxonomy, and Ecology B Zuckerman, 2012-12-02 Plant Parasitic Nematodes Volume 1 Morphology Anatomy Taxonomy and Ecology is a masterful reference work in nematology that also includes information about ultrastructure enzymology and chemistry of body composition culturing virus transmission biological races and nature of plant resistance This volume includes a discussion of the history and development of plant nematology the status of research on this field and information pertaining to professional societies and publications It also discusses nematode morphology anatomy taxonomy and ecology including the origin of plant nematodes and population dynamics It features drawing examples of free living and animal parasitic nematodes This treatise is written to provide an up to date reference source for students lecturers and research professionals in plant parasitology specifically nematology and related fields

Morphology, anatomy, taxonomy, and ecology B.M. Zuckerman, 1971 *Plant-Parasitic Nematodes* William Mai, 2018-09-05 Formerly titled Plant Parasitic Nematodes A Pictorial Key to Genera this volume has been the standard work on plant disease around the globe Now in its fifth edition it remains the fundamental reference for students as well as for diagnosticians a usable comprehensive key to plant parasitic nematodes and the only guide to feature both photographs and drawings Accompanied by full page plates the book offers descriptions of 68 genera including most that have one or more species known to be plant parasites The bibliography of approximately 2 500 entries on the taxonomy and morphology of nematode genera is one of the fullest on this subject For the present edition the authors have made revisions throughout and have added references to more than two hundred genera not previously included An updated taxonomy glossary and an index are also provided William F Mai is Liberty Hyde Bailey Emeritus professor Peter G Mullin is Coordinator of Laboratory Instruction and Howard H Lyon is Biological Photographer retired in the Department of Plant Pathology Cornell University

Manual of Agricultural Nematology Nickle, 2020-12-17 Nickle Beltsville Agricultural Research Center of the USDA has engaged 29 internationally known experts to replace the classic work of I N Filipjev 1934 and its translated revision Schuurmans Stekhoven Jr 1941 with a modern work taking note of 188 additional genera and 4 650 more species *Plant Parasitic Nematodes* Bert Zuckerman, 2012-12-02 Plant Parasitic Nematodes Volume III provides a comprehensive discussion of the different advances in plant nematology This includes biochemical techniques to taxonomy and innovation in transmission and scanning electron microscopy technology It explains a broadened basis for understanding nematode physiology and behavior and the sensory mechanisms that govern nematode actions and plant host nematode interactions The book discusses the development of modern approaches to the evaluation and reduction of crop losses The emphasis of this volume is on plant parasites and insights gained through research on other nematodes In particular the book explains the anatomical developmental behavioral and genetic studies on the free living nematode *Caenorhabditis elegans* which is a widely used laboratory model for examining various biological problems The information provided by various researches on C

elegans increases our understanding about the relevance of nematodes to general biological processes in higher organisms including man The book is divided into 19 chapters which cover the following concepts of plant nematology biochemistry cytochemistry and genetics morphology and function host parasite relations and evaluation and control of crop losses The present volume is an excellent reference for students lecturers and research professionals in plant parasitology and related fields

Proceedings of the Fourth International Congress of Nematology, 8-13 June 2002, Tenerife, Spain Roger Cook, David Hunt, 2021-11-01

Plant Pathologist's Pocketbook J. M. Waller, Jillian M. Lenné, Sarah J. Waller, 2002 This essential handbook for student and practicing plant pathologists has been thoroughly reorganized and updated since the publication of the second edition in 1983 The new edition includes rearrangement of topics to facilitate use 49 short succinct chapters each providing valuable practical information new topics such as landmarks in plant pathology survey of sampling procedures disease evaluation effects of climate change biochemical and molecular techniques epidemic modelling breeding for resistance laboratory safety and electronic databases seven overall sections covering disease recognition and evaluation causation diagnosis investigation control general techniques and presentation of results

Pictorial Key to Genera of Plant-parasitic Nematodes W. F. Mai, 1975 Two natural classifications of tylenchida and a part of dorylaimida Key to genera of plant parasitic nematodes without pictures Key to genera of plant parasitic nematodes with pictures Glossary of nematological terms

Plant parasitic nematodes Bert M. Zuckerman, 1981 **Guide to Sources for Agricultural and Biological Research** J. Richard Blanchard, Lois Farrell, 2023-07-28

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

Nematode Identification and Expert System Technology R. Fortuner, 2013-06-29 The need to identify and name organisms is fundamental to any area of biological science basic or applied In order to study or conduct research on an

organism or to convey information on this organism to others we must be able to attribute to it a consistent label Attribution of an incorrect label may have dire consequences if dangerous plant parasites are wrongly identified as members of an innocuous genus Traditional aids to nematode identification dichotomous keys use systematic criteria not always well adapted to practical identification Their reliance on dichotomous principles does not allow for intra taxon variability or for missing characters They are difficult to update and they cannot keep pace with rapidly changing classifications As experts in everyday life we recognize a horse or a dog without referring to the taxonomic descriptions of the genera *Equus* or *Canis* and their respective species Problems in identification arise when we are not experts in the recognition of a particular organism or group of organisms Then frequently in considerable frustration we reflect on the usefulness of having the advice of an expert in this group Traditional identification aids are useful tools for the expert identifiers and for teaching Their use is often difficult for general practitioners in nematology and they may lead to incorrect identification even at the genus level

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

Introduction to Plant Nematology Victor Harry Dropkin, 1980 Biology of nematodes Structure Biology of nematodes function Chapter four Identification of plant parasitic nematodes Pathology Diseases of flowers leaves and stems Disease of roots Interactions of nematodes and other organisms in plant disease Genetic resistance Population dynamics Nematode control Prospects for the future

Entomopathogenic Nematodes as Biological Control Agents David I. Shapiro-Ilan, Edwin E. Lewis, 2024-09-23 Entomopathogenic nematodes EPNs are biocontrol agents that are used to control a wide variety of insect pests within agriculture and forestry In addition to their use as bio pesticides EPNs have a fascinating biology and are thus considered model organisms in ecology symbiosis and pathogenesis This book presents basic knowledge and diverse applications to illustrate how EPNs play an important role as potent biocontrol solutions This book is a must have for all pest management

professionals including those practicing integrated pest management strategies

The Dolichodoridae of the World
 Etienne Geraert, 2019-03-18 This book contains full descriptions of all the stunt sting and awl nematodes 433 species reported from everywhere in the world that were considered by Decraemer Hunt 2006 to belong to the family Dolichodoridae order Tylenchida It is amply illustrated with line drawings and some SEM photographs that are based on microscopic and sub microscopic observations They are obligate plant parasites living in the soil and so they have an economic importance
 AUTHOR Etienne Geraert was Zoology Professor at Ghent University Belgium From 1974 till 1998 he was also Associate Editor of the International Journal Nematologica now Nematology where he was responsible for the articles on morphology and taxonomy He has already published a book on the morphology of the order Tylenchida and four books on the identification of plant parasitic nematodes of the families Tylenchidae Criconematidae Dolichodoridae and Pratylenchidae From 1990 till 2002 he was Director of the Master s Course in Nematology at Ghent University 283 b w images

Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness, 2011

Physiological Plant Pathology R. Heitefuß, P.H. Williams, 2012-12-06 Plant pathology embraces all aspects of biological and scientific activity which are concerned with understanding the complex phenomena of diseases in plants Physiological plant pathology represents those specialities within plant pathology which focus on the physiological and biochemical activities of pathogens and on the response of host plant tissues Today there is an increasing recognition on the part of the scientific agri cultural community that only through a deeper and more fundamental under standing of all the interacting components of the agricultural biota can we expect to improve our capabilities of feeding an expanding world population It is in this context that physiological plant pathology has assumed new significance within the broader field of plant pathology No longer are studies on the biochemistry and physiology of pathogens and pathogenesis merely isolated academic exercises rather a substantial coherent body of knowledge is accumulating upon which our understanding of the process of disease developmen t and host resistance is being founded It is from these foundations of knowledge that ultimately new insights into the control of plant diseases may be expected to grow It seems appropriate therefore that at regular intervals those involved in the various subspecialities encompassing the broadest aspects of physiological plant pathology reassess the contributions within the particular specialities in the light of new knowledge and technologies for the purpose of articulating new and productive directions for the future

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.

Nematology E. I. Jonathan, 2009-08. The book is written for under graduate students of agriculture, horticulture, and post graduates specializing in Nematology and Entomology dealing with plant parasitic nematodes. This book covers historical background including the developments in India and abroad, details of morphology, anatomy, and taxonomy of plant parasitic nematodes, relevant nematological techniques, and focus on nematode problems in important crop plants and their management.

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