Pratylenchus Nematoda Pratylenchidae Diagnosis Biology Pathogenicity And Management

Pratylenchus (Nematoda: Pratylenchidae)-Pablo Castillo 2007 Root-lesion nematodes of the genus Pratylenchus are recognized worldwide as one of the major constraints of crop of primary economic importance including vegetables, and many small and fruit trees. Pratylenchus spp. rank third behind root-knot and cyst nematodes as the nematodes of greatest economic impact.

Pratylenchus (Nematoda: Pratylenchidae): Diagnosis, Biology, Pathogenicity and Management-Pablo Castillo 2007-10-30 Root-lesion nematodes of the genus Pratylenchus are recognized worldwide as one of the major constraints of crop of primary economic importance including vegetables, and many small and fruit trees. Pratylenchus spp. rank third behind root-knot and cyst nematodes as the nematodes of greatest economic impact.

Wheat-Brett F. Carver 2009-06-23 Wheat: Science and Trade is an up-to-date, comprehensive reference work designed to expand the current body of knowledge on this staple crop, incorporating new information made available by genetic advances, improvements in the understanding of wheat’s biology, and changes in the wheat trade industry. Covering phylogeny and ontogeny, manipulation of the environment and optimal management, genetic improvement, and utilization and commercialization, the book focuses on the most economically significant diseases and impacts.

Plant Parasitic Nematodes in Sustainable Agriculture of North America-Sergei A. Subbotin 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 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
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Handbook of Invasive Plant-Parasitic Nematodes-Ziaul Haque 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.

Insects as Animal Feed-Heidi Hall 2021-08-31 The global drive towards sustainability and improved animal health means there is a greater need for development of novel functional ingredients for the feed industry. As the requirements for protein for livestock feed and human consumption grows, the use of insect products as animal feed has gained increasing attention. Including a focus on practices such as waste valorization, this book takes a holistic look at how insects could contribute to the sustainability of livestock production on a global scale. Providing an up-to-date reference for research scientists, nutritionists, and veterinarians, as well as prospective insect farmers, it will also be of interest to those with a broader curiosity towards climate change, sustainability, and the circular economy.

The Potato-Roy Navarre 2014-12-15 Potatoes are a staple crop around the world. Covering all aspects of botany, production and uses, this book presents a comprehensive discussion of the most important topics for potato researchers and professionals. It assesses the latest research on plant growth such as tuber development, water use and seed production, covers all aspects of pest management and reviews postharvest issues such as storage, global markets, and of course, nutritional value and flavour.

Soybean-Minobu Kasai 2017-05-03 Soybean is one of the organisms largely contributing to our life. Therefore, it is important to know soybean from various aspects. The knowledge and soybean itself will be greatly useful, if they are soundly used. The chapters constituting this book present reviews and researches especially concerning the basis of yield, biomass, and productivity in soybean. Yield, biomass, and productivity in plants are some of the bases for maintaining or improving our ecosystem which includes our life and surrounding environments. Therefore, this book is expected to be useful for many people. Of course, more researches and investigations are important to further gain the knowledge concerning the basis of yield, biomass, and productivity and make them useful for our ecosystem.

Plant Nematology-Roland N Perry 2013-10-17 Plant-parasitic nematodes devastate crops worldwide, in turn impacting international trade, social and economic development. Effective control of nematodes is essential for crop protection, and requires an understanding of nematode biology, taxonomy, population dynamics and sampling methods. Providing a broad introduction to nematodes as plant parasites, this book begins by describing nematodes by genera, and builds on this foundation to detail nematode biology and pest management, including biological and chemical control. Chapters are authored by international experts and enhanced by extensive illustrations and focus boxes. Fully updated throughout, this new
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This edition is an essential resource for postgraduate students, extension officers, researchers and crop protection scientists.

Integrated Pest and Disease Management in Greenhouse Crops—Maria Lodovica Gullino 2020-03-17
This book represents a new, completely updated, version of a book edited by two of the current editors, published with Springer in 1999. It covers pest and disease management of greenhouse crops, providing readers the basic strategies and tactics of integrated control together with its implementation in practice, with case studies with selected crops. The diversity of editors and authors provides readers a complete picture of the world situation of IPM in greenhouse crops.

Genomics and Molecular Genetics of Plant-Nematode Interactions—John Jones 2011-04-26
This book reviews developments in the molecular biology of plant-nematode interactions that have been driven by the application of genomics tools. The book will be of interest to postgraduate students and to researchers with an interest in plant nematology and/or plant pathology more generally. A series of introductory chapters provide a biological context for the detailed reviews of all areas of plant-nematode interactions that follow and ensure that the bulk of the book is accessible to the non-specialist. A final section aims to show how these fundamental studies have provided outputs of practical relevance.

Medicinal Plants and Environmental Challenges—Mansour Ghorbanpour 2017-10-31
This book sheds new light on the role of various environmental factors in regulating the metabolic adaptation of medicinal and aromatic plants. Many of the chapters present cutting-edge findings on the contamination of medicinal plants through horizontal transfer, as well as nanomaterials and the biosynthesis of pharmacologically active compounds. In addition, the book highlights the impacts of environmental factors (e.g., high and low temperature, climate change, global warming, UV irradiation, intense sunlight and shade, ozone, carbon dioxide, drought, salinity, nutrient deficiency, agrochemicals, waste, heavy metals, nanomaterials, weeds, pests and pathogen infections) on medicinal and aromatic plants, emphasizing secondary metabolisms. In recent years, interest has grown in the use of bioactive compounds from natural sources. Medicinal and aromatic plants constitute an important part of the natural environment and agro-ecosystems, and contain a wealth of chemical compounds known as secondary metabolites and including alkaloids, glycosides, essential oils and other miscellaneous active substances. These metabolites help plants cope with environmental and/or external stimuli in a rapid, reversible and ecologically meaningful manner. Additionally, environmental factors play a crucial role in regulating the metabolic yield of these biologically active molecules. Understanding how medicinal plants respond to environmental perturbations and climate change could open new frontiers in plant production and in agriculture, where successive innovation is urgently needed due to the looming challenges in connection with global food security and climate change. Readers will discover a range of revealing perspectives and the latest research on this vital topic.

Nematodes in Phytobiomes—Holger Heuer 2021-04-21
Management of Phytonematodes: Recent Advances and Future Challenges—Rizwan Ali Ansari 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.

Plant Parasitic Nematodes in Subtropical and Tropical Agriculture—Michel Luc 2005
This fully updated second edition covers all aspects of practical plant nematology in subtropical and tropical agriculture. It covers the major food and cash crops including; rice, cereals, solanum and sweet potatoes and other root and tuber crops, food legumes, vegetables, peanut, citrus, tree and fruit crops, coconut and other palms, coffee, cocoa, tea, bananas, sugarcane, tobacco, pineapple, cotton, other tropical fibres, spices, condiments and medicinal plants. It provides practical guidance on methods of
extraction, processing and diagnosing of different plant and soil nematodes and on integrated pest management.
Zoosystematica Rossica- 2001
Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales- 2010-03
C.I.H. Descriptions of Plant Parasitic Nematodes-Commonwealth Institute of Helminthology 1972
Biological & Agricultural Index- 1984
Nematologica- 1998

The Biology of Nematodes-Donald L Lee 2002-01-10 The Biology of Nematodes synthesizes knowledge of the biology of free-living, plant-parasitic, and animal-parasitic nematodes. Contributed works by recognized researchers apply groundbreaking molecular techniques, many of which resulted from work on Caenorhabditis elegans, toward new approaches to the study of nematode worms. Topics covered

Bibliography of Agriculture- 1985
Agrindex- 1995
Revue de nématologie- 1990

Variation of the Plant Parasitic Nematode Pratylenchus Penetrans on Potatoes-René Andrés France 1994
Annales Zoologici- 2005
Chemical Abstracts- 2002
Advances in Computer Methods for Systematic Biology-Renaud Fortuner 1993
Bibliography of Agriculture with Subject Index- 1985
Revista mexicana de fitopatología- 2004
Proceedings of the Indian National Science Academy-Indian National Science Academy 1984
Diseases and Pests of Vegetable Crops in Canada-Canadian Phytopathological Society 1994 Crop production; Crop losses and their causes; Disease and pest management; Asparagus; Beet, chard, spinach; Carrot; Celery, celeriac; Crucifers (broccoli, brussels sprouts, cabbage, cauliflower, radish, rutabaga, turnip); Cucurbits (cucumber, melon, pupkin, squash, zucchini); Herbs and spices; Lettuce, chicory, endive; Maize (sweet corn); Onion, garlic, leek, shallot, chives; Parsnip; Pea and bean; Potato; Rhubarb; tomato, eggplant, pepper; Fiddlehead; Ginseng; Jerusalem artichoke; Greenhouse cucumber; Greenhouse lettuce; Greenhouse pepper; Greenhouse tomato; Mushroom; Vegetable sprouts.

Australian Journal of Experimental Agriculture- 1999
Proceedings of the Zoological Institute- 1932
Comprehensive Dissertation Index- 1984
Enfermedades forestales en México-David Cibrián-Tovar 2007 Agentes abióticos; Agentes bióticos; Enfermedades del follaje; Cancros; Royas; Enfermedades de la raíz; Pudrición en árboles vivos; Marchitamientos vasculares; Bacterias, fitoplasmas y virus; Nematodos; Plantas parásitas; Deterioro de la madera; Enfermedades en vivieros forestales.
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