

PLANT PARASITIC NEMATODES IN SUBTROPICAL AND TROPICAL AGRICULTURE

3rd Edition

Edited by

Richard A. Sikora

Danny Coyne

Johannes Hallmann

Patricia Timper



 **CABI**

Plant Parasitic Nematodes In Subtropical Agriculture

Richard A. Sikora



Plant Parasitic Nematodes In Subtropical Agriculture:

Plant Parasitic Nematodes in Subtropical Agriculture Richard A. Sikora, 1990 **Plant Parasitic Nematodes in Subtropical and Tropical Agriculture** Richard A. Sikora, 2018 Integrated Management of Fruit Crops and Forest Nematodes Aurelio Ciancio, K.G. Mukerji, 2009-03-15 This series originated during a visit of prof K G Mukerji to the CNR Plant Protection Institute at Bari Italy in November 2005 Both editors convened to produce a series of five volumes focusing in a multi disciplinary approach on recent advances and achievements in the practice of crop protection and integrated pest and disease management This fourth Volume deals with management of nematodes parasitic of tree crops and includes a section on tropical fruit crops and commodities as well as a second section on tree crops from more temperate areas The latter also includes a chapter updating the current knowledge about the pine wood nematode *Bursaphelenchus xylophilus* Volume 4 flanks Volume 2 of this IMPD series which focused on management of vegetable and grain crops nematodes Nematodes are a very successful diversified and specialised animal group present in nature in any ecological niche Among nematode species only a reduced number feeds on plants of which a few species cause severe economic impacts on crop productions Plant parasitic nematodes represent an important concern for a broad range of agricultural productions and systems worldwide This statement explains the attention devoted in last decades to nematodes and the research and technical efforts invested for their control *Handbook of Invasive Plant-Parasitic Nematodes* Ziaul Haque, Mujeibur 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* Cristiano Bellé, Tiago Edu Kaspary, 2022-03-02 Nematodes are microscopic eel like roundworms that can infect humans animals and plants and cause serious damage and yield losses in a wide range of crops worldwide This book includes thirteen chapters that address such topics as diagnosing nematode infections in crops fruits and horticultural crops management and biological control of plant parasitic nematodes biological indicators of nematodes

and entomopathogenic and marine nematodes This comprehensive volume is a useful resource for students teachers researchers field workers and all those interested in and working with nematodes Plant Nematology in Ghana Seloame Tatu Nyaku, Francis Collison Brentu, 2022-02-02 This book focuses on nematode parasitizing crop plants grown in Ghana and the West Africa sub region It offers information on nematode types and their population densities in both soil and root samples on selected crops cultivated in Ghana with particular focus on nematodes of tree crops vegetables fruits and other crops

Modes of action of non-pathogenic *Fusarium oxysporum* endophytes for bio-enhancement of banana toward *Radopholus similis* Vu Thi Thanh Tam, 2005-02-16 Recently mutualistic endophytic *F oxysporum* isolates were documented as candidates for biological control against plant parasitic nematodes However understanding their mechanisms of action toward *R similis* was poorly known The following can be summarized from the present findings

- 1 Pathogenicity of endophytic *F oxysporum* isolates toward *R similis* Non pathogenic endophytic *F oxysporum* isolates directly affected *R similis* survival in the absence of banana plants In both synthetic media and in the soil *F oxysporum* isolates decreased mobility of *R similis* when compare to the untreated controls *F oxysporum* was not shown to be a parasite of the nematode Toxins in culture filtrates of *F oxysporum* isolates Fo162 and V5W2 reduced mobility of *R similis* in vitro however the toxic effects were not lethal
- 2 Colonization plant growth promotion and vegetative compatibility of endophytic *F oxysporum* The *F oxysporum* isolates Fo162 and V5W2 not only colonized excellently on banana roots a short time after fungal application but also persisted in the root tissues for over 14 weeks The *F oxysporum* isolates also promoted banana growth in long term experiments in the absence of *R similis* The *F oxysporum* isolates A1 Fo162 and V5W2 were shown to be unrelated genetically to the important pathogenic *Fusarium* wilt diseases of bananas and tomatoes by VCG testing Therefore these mutualistic endophytic *F oxysporum* isolates are not only beneficial and non pathogenic on bananas but also are not pathogenic to other crops These results indicate that endophytic *F oxysporum* isolates A1 Fo162 and V5W2 are strong candidates for biocontrol in the field
- 3 Modes of action of non pathogenic endophytic *F oxysporum* isolates toward burrowing nematode *R similis* on banana The *F oxysporum* isolates reduced nematode penetration in banana plants when compared to untreated controls The *F oxysporum* not only reduced *R similis* penetration but also reduced nematode population density in banana root after 12 weeks Timing inoculum concentration and the ability of the *F oxysporum* to colonize banana roots strongly influence the level of biological control activity against *R similis* *F oxysporum* metabolites affected the mobility of *R similis* in vitro but did not affect *R similis* penetration in soil The endophytic *F oxysporum* decreased attraction and the host finding ability of *R similis* *F oxysporum* may induce toxic substances like pathogenesis related proteins change root exudates that obstruct or repel attraction of *R similis* to banana or reduce nematode recognition All the isolates of *F oxysporum* used induced systemic resistance against *R similis* infestation in banana Induced systemic resistance was clearly demonstrated to be the essential first step in the mode of action of non pathogenic endophytic *F oxysporum* and indicates that protection

mainly results from initiation of induced systemic resistance coupled with changes in host finding ability. Changes in banana root proteins following treatment with *F. oxysporum* isolates Fo162 and V5W2 detected by 1D SDS Polyacrylamide gel electrophoresis were discovered. Small differences between fungal treatments and the controls were observed, however they were not clear and therefore should be analysed further with 2D Polyacrylamide gel electrophoresis. *Novel Biological and Biotechnological Applications in Plant Nematode Management* Mujeeb-ur Rahman Khan, 2023-11-08. The volume focuses on novel and effective biological and biotechnological methods for managing major plant parasitic nematodes in economically important agricultural crops. Nematodes develop a wide variety of interactions with soil microbes and host plants and cause enormous losses in crop yields equivalent to around USD 173 billion annually. In view of growing concern for pesticide contamination in crops coupled with ban on several efficacious pesticides and increasing demand for organic foods, the biological and biotechnological approaches offer a good alternative to chemicals for managing nematode infestations in agricultural crops. The book embodies twenty-two chapters which are arranged in two groups. The first group covers different novel methods of nematode management such as biotechnological biopesticides, microbial consortia, host resistance, omics, technology, transgenics, nano-nematicides, nano-diagnosis, etc. The second group of chapters describes important nematode problems in major crops such as cereals, vegetables, pulses, spices, wood-yielding conifers, etc. Overall, the book collates the latest information on above topics and offers practical solutions to the limitations and challenges in the existing management technologies. This book is of interest and serves up to date and elaborated information to agriculture researchers, teachers, scientists, undergraduates, postgraduates, plant nematologists, plant pathologists, plant protectionists, agronomists, horticulturalists, helminthologists, extension workers, and NGOs.

Microbial Inoculants in Sustainable Agricultural Productivity Dhananjaya Pratap Singh, Harikesh Bahadur Singh, Ratna Prabha, 2016-02-22. How to achieve sustainable agricultural production without compromising environmental quality, agro-ecosystem function, and biodiversity is a serious consideration in current agricultural practices. Farming systems growing dependency on chemical inputs, fertilizers, pesticides, nutrients, etc., poses serious threats with regard to crop productivity, soil fertility, the nutritional value of farm produce, management of pests and diseases, agro-ecosystem well-being, and health issues for humans and animals. At the same time, microbial inoculants in the form of biofertilizers, plant growth promoters, biopesticides, soil health managers, etc., have gained considerable attention among researchers, agriculturists, farmers, and policy makers. The first volume of the book *Microbial Inoculants in Sustainable Agricultural Productivity: Research Perspectives* highlights the efforts of global experts with regard to various aspects of microbial inoculants. Emphasis is placed on recent advances in microbiological techniques for the isolation, characterization, identification, and evaluation of functional properties using biochemical and molecular tools. The taxonomic characterization of agriculturally important microorganisms is documented along with their applications in field conditions. The book explores the identification, characterization, and diversity analysis of endophytic microorganisms in

various crops including legumes non legumes as well as the assessment of their beneficial impacts in the context of promoting plant growth Moreover it provides essential updates on the diversity and role of plant growth promoting rhizobacteria PGPR and arbuscular mycorrhizal fungi AMF Further chaptersexamine in detail biopesticides the high density cultivation of bioinoculants in submerged culture seed biopriming strategies for abiotic and biotic stress tolerance and PGPR as abio control agent Given its content the book offers a valuable resource for researchers involved in research and development concerning PGPR biopesticides and microbial inoculants

Plant Parasitic Nematodes in Temperate Agriculture Ken Evans, David L. Trudgill, John Malcolm Webster, 1993 Extraction identification and control of plant parasitic nematodes Modelling population dynamics and yield losses and their use in nematode management Nematode parasites of potatoes Nematode parasites of sugarbeet Nematode pests of vegetable crops Nematode pests of oilseed crops and grain legumes Nematode pests of cereals Nematode pests of grassland and forage crops Nematode pests of forest trees Nematode pests of deciduous fruit and nut trees Nematode pests of soft fruits and vines Nematode pests of ornamental and bulb crops Nematode pest of glasshouse crops and mushrooms Molecular aids to nematode diagnosis Entomogenous and entomopathogenic nematodes in biological control Quarantine problems and solutions Cellular and molecular approaches to the control of plant parasitic nematodes

Plant Nematodes M R Khan, 2008-01-10 Introduction to plant nematology Methodology Morphology of nematodes Systematics and classification of nematodes Biology of nematodes Feeding and trophic relationship of nematodes Ecology of nematodes

Indian Journal of Nematology, 2007

An Introduction to Nematodes Luiz C. C. Ferraz, Derek J. F. Brown, 2002 Provides insight of diseases caused by endo and ectoparasitic nematodes bio ecology reproduction plant parasitism morphology and structure control strategies and taxonomy and classification

Banana Nematodes and Weevil Borers in Asia and the Pacific Ramón V. Valmayor, 1994 Opening remarks Meeting rationale Opening address Introductory lecture plant parasitic nematodes a potential threat to commercial cultivation of banana in Malaysia Status of nematode and weevil borer problems affecting banana in Australia Status of nematode and weevil borer problems affecting banana in China Status of nematode problems affecting banana in Indonesia Status of nematode problems affecting banana in Malaysia Status of nematode and weevil borer problems affecting banana in the Philippines Status of nematode and weevil borer problems affecting banana in some of the Pacific Islands Status of weevil borer problems affecting banana in Thailand Status of nematode and weevil borer problems affecting banana in Thailand Control of the banana weevil borer *Cosmopolites sordidus* with entomopathogenic nematodes Biological control of banana nematodes development of BIOCON BIOACT and BIOCON II Technologies A review of control strategies for banana pests as part of the research priorities at NRI and Associated Institutes in the UK CIRAD FLHOR research actions on nematodes and black borer weevil of bananas and plantains Assessment of banana weevils in East African Highland banana systems and strategies for control Assessment of nematode damage in East African highland banana systems Prospects to

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