



Principles Practice Of Managing Soilborne Plant Pathogens

Steven T. Koike, Peter Gladders, Albert Paulus



Principles Practice Of Managing Soilborne Plant Pathogens:

Principles and Practice of Managing Soilborne Plant Pathogens Robert Hall, 1996 This book considers soilborne plant pathogens from four different perspectives One approach explores the historical social and scientific contexts of these pathogens A second offers a conceptual framework for understanding their biology and control Another discusses how the interrelationship of principles and practice leads to innovation in management techniques A fourth section presents studies that investigate recent developments in practical control strategies

Principles and Practice of Managing Soilborne Plant Pathogens Robert Hall, 1996 *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 compared 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 Biological Control of Crop Diseases Samuel S. Gnanamanickam,2002-04-03 This volume combines theory with current global practices involved in the biological control of diseases in 12 major crops It highlights the day to day challenges of organic crop management for cost effective real world application **Plant Pathology Concepts and Laboratory Exercises, Second Edition** Robert N. Trigiano,2007-11-30 Revised and updated with new concepts case studies and laboratory exercises Plant Pathology Concepts and Laboratory Exercises Second Edition supplies highly detailed and accurate information in a well organized and accessible format New additions to the second edition include five new topic and exercise chapters on soilborne pathogens molecular tools biocontrol and plant fungal interactions information on in vitro pathology an appendix on plant pathology careers and how to use and care for the microscope An accompanying cd rom contains figures from the text as well as supplemental full color photos and PowerPoint slides Unique Learning Tools Retaining the informal style of the previous edition this volume begins each topic with a concept box to highlight important ideas Several laboratory exercises support each topic and cater to a wide range of skill sets from basic to complex Procedure boxes for the experimental exercises give detailed outlines and comments on the experiments step by step instruction anticipated results and thought provoking questions Case studies of specific diseases and processes are presented as a bulleted list supplying essential information at a glance Comprehensive Coverage Divided into six primary parts this valuable reference introduces basic concepts of plant pathology with historical perspectives fundamental ideas of disease and disease relationships with the environment It details various disease causing organisms including viruses prokaryotic organisms plant parasitic nematodes fungi plant parasitic seed plants and other biotic and abiotic diseases Exploring various plant pathogen interactions including treatments of molecular attack strategies extracellular enzymes host defenses and disruption of plant function the book presents the basic ideas of epidemiology control strategies and disease diagnosis **Vegetable Diseases** Steven T. Koike,Peter Gladders,Albert Paulus,2006-12-14 Our dependence on healthy vegetable crops as a reliable source of food transcends all barriers of nation and culture Consumers now demand excellent quality from the industry that produces large volumes of high quality vegetables to be sold locally regionally and shipped internationally The diseases that affect vegetables compromise such quality **Etiology and Control of Dry Bean Root Rot in Minnesota** Elva Consuelo Estévez de Jensen,2000 The Journal of Agriculture of the University of Puerto Rico ,2004 **Concepts in Integrated Pest Management** Norris,Caswell-Chen & Kogan,2003 **Proceedings of the International Symposium on Soilless**

Culture and Hydroponics, Almería, Spain, November 14-19, 2004 Miguel Urrestarazu Gavilán, 2005 Bulgarian Journal of Agricultural Science, 2004 **Chemical and Cultural Management Strategies for Rhizoctonia Solani Kuhn on Potatoes in Michigan** Devan Roppoch Berry, 2009 *Rhizosphere: Achievements and Challenges* Yves Dessaux, Philippe Hinsinger, Philippe Lemanceau, 2009-12-04 Broader in scope than classic references this volume looks at the rhizosphere as a holistic entity by incorporating concepts from molecular biology The text also identifies concepts that could lead to new management methods in ecological engineering **Ecology and Management of Soilborne Plant Pathogens** American Phytopathological Society, 1985 The study of soilborne plant pathogens changing outlook or more of the same Characteristics of trends in disease caused by soilborne pathogens with spring barley monoculture Mycophagous amoebas from arable pasture and forest soils Northern poor root syndrome of sugarcane in Australia Effects of soil insects on populations and germination of fungal propagules A technique to compare growth in soil of *Gaeumannomyces graminis* var *tritici* over a range of matric potentials Use of aerial photography for assessing soilborne disease Isolation and characterization of plasmid DNA in the fungus *Rhizoctonia solani* Sharp eyespot of cereals and *Rhizoctonia* of potato Saprophytic survival of *Gaeumannomyces graminis* var *tritici* in the Victorian Mallee Australia The changing nature of stalk rot of maize caused by *Gibberella zeae* Collar rot of passion fruit possibly caused by *Nectria haematococca* in Taiwan Survival of *Phytophthora cinnamomi* in eucalyptus roots buried in forest soils The *Rhizoctonia* disease complex of wheat Population and survival of sclerotia of *Rhizoctonia solani* in soil *Rhizoctonia* in South Australian wheat fields Anastomosis groups of *Rhizoctonia solani* and binucleate *Rhizoctonia* A study of pepper wilt in Northern Iraq *Rhizoctonia* on small grain cereals in Great Britain Fungal invasion of clover and grass roots in New Zealand pasture soils Pathogenic *Rhizoctonia* and orchids Origin and distribution of *Phytophthora cinnamomi* The biology of the rhizosphere Mode of colonization of roots by *Verticillium* and *Fusarium* Dynamics of root colonization by the take all fungus A mathematical model of vesicular arbuscular mycorrhizal infection in roots of *Trifolium subterraneum* Rhizoplane mycoflora of *Gahnia radula* and *Isopogon ceratophyllus* in soils infested and free from *Phytophthora cinnamomi* Soils suppressive to *Fusarium* wilt mechanisms and management of suppressiveness Reduction of take all by mycophagous amoebas in pot bioassays *Trichoderma* as a biocontrol agent against soilborne root pathogens Chemical factors in soils suppressive to *Pythium ultimum* Influence of *trichoderma* on survival of *Thanatephorus cucumeris* in association with rice in the tropics Biological control of *Fusarium* wilt of sweet potato with cross protection by nonpathogenic *Fusarium oxysporum* Integrated biological and chemical control of sclerotial pathogens Yield depressions in narrow rotations caused by unknown microbial factors and their suppression by selected pseudomonads Antagonistic behavior of root region microfungi of pigeon pea against *Fusarium udum* Control of *Verticillium dahliae* by coating potato seed pieces with antagonistic bacteria Application of fluorescent pseudomonads to control root diseases The role of seeds in the delivery of antagonists into the rhizosphere Interactions between microbial residents of cereal roots

Survival of fungal antagonists of *Gaeumannomyces graminis* var *tritici* Control of wheat take all and ophiobolus patch of turfgrass by fluorescent pseudomonads Role of plant breeding in controlling soilborne diseases of cereals *Phytophthora drechsleri* causes crown rot and the accumulation of antifungal compounds in cucurbits Changes in root tissue permeability associated with infection by *Phytophthora cinnamomi* Stability of *Verticillium* resistance of potato clones and changes in soilborne populations with potato monoculture Field resistance of wheat cultivars to crown rot *Fusarium graminearum* group 1 Variability in *Phytophthora cactorum* in India Glasshouse test for tolerance of wheat to crown rot caused by *Fusarium graminearum* group 1 Development of inoculation technique for *Rhizoctonia solani* and its application to screening cereal cultivars for resistance *Phytophthora cinnamomi* a study of resistance in three native monocotyledons that invade diseased victorian forests Relative susceptibility of wheat rye and triticale to isolates of take all New inoculation technique for *Gaeumannomyces graminis* var *tritici* to measure dose response and resistance in wheat in field experiments Soil as an environment for the growth of root pathogens Lethal temperatures of soil fungi Relation between root infection with *Phytophthora cinnamomi* and water relations in susceptible and field resistant *Eucalyptus* species Effects of soil temperature moisture and timing of irrigation on powdery scab of potatoes Influence of depleted oxygen supply on *phytophthora* root rot of safflower in nutrient solution Pea root pathogen populations in relation to soil structure compaction and water content Wax layers for partitioning soil moisture zones to study the infection of wheat seedlings by *Fusarium graminearum* Effect of frost on *Fusarium* root rot of alfalfa and possibility of double trait selection Reduction in infection of wheat roots by *Gaeumannomyces graminis* var *tritici* with application of manganese to soil Effect of parent materials derived from different geological strata on suppressiveness of soils to black root rot of tobacco Effect of varied NPK nutrition and inoculum density on yield losses of wheat caused by take all Influence of environmental factors and sclerotial origin and parasitism of *Sclerotinia sclerotiorum* by *Coniothyrium minitans* Impact of herbicides on plant diseases Effects of soil application of fungicides on take all in winter wheat Use of fungicides to study significance and etiology of root rot of subterranean clover in dryland pastures of Victoria Suppression of soilborne diseases of ornamental plants by tree bark composts Effects of cropping sequences on saprophytic survival and carry over of *Gaeumannomyces graminis* var *tritici* Susceptibility of apple trees to *Phytophthora cactorum* and effect of systemic fungicides Enhanced suppression of take all root rot of wheat with chloride fertilizers Effect of tillage on *Heterodera avenae* in wheat Effect of rotation and tillage on take all and *Rhizoctonia* root rot in wheat Activity of fungicides in soil against infection of wheat roots by *Gaeumannomyces graminis* var *tritici* Integrated control of root rot of soybean caused by *Phytophthora megasperma* f sp *glycinea* Cropping practices and root diseases Root rot of irrigated subterranean clover in Northern Victoria Significance and prospects for control Solar disinfection of soils Soil solarization effects on *Fusarium* wilt of carnation and *Verticillium* wilt of eggplant Evaluation of soil solarization for control of clubroot of crucifers and white rot of onions in Southeastern Australia Relative efficiency of

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