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Utilization of plant materials for control of soybean cyst nematode

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Utilization Of Plant Materials For Control Of Soybean Cyst Nematode

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Utilization Of Plant Materials For Control Of Soybean Cyst Nematode:

Utilization of Plant Materials for Control of Soybean Cyst Nematode Hassan M. Auwal, Jing-wu Zheng, 2015-09-24 Plant parasitic nematodes PPN are major constraints to food production worldwide PPN cause annual crop yield losses of 12.3 % to global food production This is estimated at monetary value of 157 billion U S dollars worldwide At present the most widely used method for control of PPN is the use of synthetic chemical nematicides Nematicides although highly effective more convenient in use and drastic in their action against nematodes they are now being re appraised globally due to their undesirable effect on the environment man and biodiversity The necessity of creating a healthy ecosystem and environment that are necessary to the survival of humans and other biodiversity on earth cannot be overemphasized Plant material resources offer great potentials as environment friendly alternatives to synthetic chemicals This book is about achieving a mission of reducing negative human impacts on the ecosystem and achieving environmental resource management and protection through the use of plant materials Information contained in the book on green chemistry and conservation biology will go a long way towards achieving environmental sustainability

The Use of Humic Acid in Nematode Management Seenivasan Nagachandrabose, C. Sankaranarayanan, K.S. Subramanian, 2023-05-25 Phytonematodes are small microscopic invertebrate animals living in the soil as parasites of many plants Many plant parasitic nematodes establish strong host parasitic relations with major food fruit vegetable and allied crops resulting in a drastic yield loss globally To control or manage these nematode menaces farmers or growers use toxic fumigants as well as non fumigant chemical nematicides frequently It is necessary to adopt eco friendly products to tackle the nematode problem This book explains the nature of nematodes the role of organic methods and organic acids in nematode control and the role of humic acid in agriculture plant disease control phytonematode control nematode control It also details the success of research trials on phytonematode control using humic acid on banana and citrus nematodes as well as its compatibility with available biocontrol agents and its future prospects

Plant Parasitic Nematodes in Sustainable Agriculture of North America Sergei A. Subbotin, John J. Chitambar, 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 Nematology* N. G. Ravichandra, 2013-12-30 *Plant Nematology* has been designed as per the guidelines provided by the Indian Council of Agricultural Research New Delhi This book gives a comprehensive account of various aspects of Phytonematology including both basic and applied along with illustrations and descriptions Fundamentals of sampling different techniques in Nematology traditional and molecular taxonomy nematode anatomy and morphology interaction with fungi bacteria viruses mycorrhiza and rhizobia most common plant pathogenic genera historical accomplishments biology and ecological details along with entomopathogenic nematodes physiological and molecular Nematology are some of the major fields covered in this book A detailed glossary of Nematological terms and diversified aspects of nematode management have also been furnished *Soybean Production, Protection, and Utilization* International Soybean Program, 1975 The Plant Disease Reporter, 1971 Bacteria in Agrobiolgy: Disease Management Dinesh K. Maheshwari, 2013-01-11 The future of agriculture greatly depends on our ability to enhance productivity without sacrificing long term production potential The application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPB represents an ecologically and economically sustainable strategy The use of these bio resources for the enhancement of crop productivity is gaining importance worldwide Bacteria in Agrobiolgy Disease Management discusses various aspects of biological control and disease suppression using bacteria Topics covered include fluorescent pseudomonads siderophore producing PGPR pseudomonas inoculants bacillus based biocontrol agents bacterial control of root and tuber crop diseases fungal pathogens of cereals soil borne fungal pathogens peronosporomycete phytopathogens and plant parasitic nematodes **History of Soybean Plant Protection from Diseases, Insects, Nematodes and Weeds (15 BCE to 2019):** William Shurtleff, Akiko Aoyagi, 2019-04-27 The Plant Disease Bulletin, 1971 **Harnessing Useful Rhizosphere Microorganisms for Pathogen and Pest Biocontrol, Volume II** Aurelio Ciancio, Corn  M. J. Pieterse, Jes s Mercado-Blanco, 2019-11-28 The use of biocontrol agents and beneficial organisms for management of plant and pest diseases appears as an environment friendly and economic procedure However this option is not always available depending on the lack of knowledge on the mechanisms of natural regulation locally effective In this view this eBook considers studies and experimental works illustrating a range of problems and solutions based on microbial resources suitable for management of biotic stress factors These examples show how detailed data and knowledge on the organisms involved are of paramount importance to achieve a sustainable and durable management capability

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