Plant Viruses As Molecular Pathogens

listed by Javvald A. Khan and Jeanne Dijkstra



Plant Viruses As Molecular Pathogens

Khan; Dijkstra

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Plant Viruses As Molecular Pathogens Jawaid A. Khan, Jeanne Dijkstra, 2001-11-08 Learn to produce healthier crops and better harvests This uniquely valuable book highlights the tremendous progress of knowledge in different areas of the field over the last decade Here you ll find new and useful information about plant molecular virology and how the field can improve the world food situation in the coming years The last decade has seen remarkable advances in plant virological research owing mainly to the rapid progress made in molecular biology and genetic engineering in recent years While recombinant DNA technology has significantly contributed to our understanding of plant viruses new findings are being accumulated every day as reported in various publications Plant Viruses As Molecular Pathogens is the only book to bring you all of this information 22 chapters in a single volume compiled by specialists around the globe Use Plant Viruses As Molecular Pathogens to enhance your knowledge of current virus taxonomy the molecular basis of virus transmission movement of plant viruses replication and gene expression of RNA DNA viruses resistance to viruses molecular epidemiology recombination events and possible mechanisms molecular diversity novel aspects of plant virus detection technologies With helpful illustrations photos figures models that explain viral mechanisms and easy to understand reference tables Plant Viruses As Molecular Pathogens will stimulate your thinking on this fascinating area of plant science Plant Viruses As Molecular Biology of Plant Viruses Chuni L. Mandahar, 2012-12-06 Two Molecular Pathogens Khan; Dijkstra, 2002-02-01 decades ago recombinant DNA technology or genetic engineering ushered in a new era in the study of plant viruses The major breakthrough came in the eighties primarily due to the development of new methods for RNA reverse transcription and cDNA cloning along with restriction enzyme mapping and rapid nucleotide sequencing An information explosion in various molecular aspects of plant viruses was caused by these studies Current research efforts investigate the study of viral genomes genetic maps genes and gene expression gene products and genetic basis of virus functions and biological properties Molecular Biology of Plant Viruses analyzes collates and reviews such published information Additionally it demonstrates the mechanisms of genetic variability brings out the molecular basis of virus transport in plants and of virus transmission by vectors and of disease symptomatology and discusses molecular biology of viroids and transgenic plants It also treats the recently discovered genetic phenomenon of gene silencing and the gene for gene interactions between the hosts and plant viruses Molecular Biology of Plant Viruses is an excellent reference providing insight into the exciting research developments made in the field Soilborne Microbial Plant Pathogens and Disease Management, Volume One P. Narayanasamy, 2019-10-08 Soilborne microbial plant pathogens including oomycetes fungi bacteria and viruses cause several economically important destructive diseases and the symptoms of infection can be recognized only after the pathogen has invaded many tissues primarily vascular tissues of susceptible plants This condition places formidable challenges in investigating different aspects of host microbial pathogen interactions Early detection of infection and precise identification

differentiation and quantification of the microbial plant pathogens in plants soil and water sources are essential requirements for development of effective tactics to reduce the incidence and spread of the diseases caused by them As the microbial plant pathogens differ in their virulence and sensitivity to the environment and chemicals applied it is imperative to assess the extent of variability in the concerned pathogens This first volume of a two volume set introduces disease causing microorganisms including oomycetes fungi bacteria and viruses found in soils It focuses on the biology detection and identification of soilborne bacterial fungal and viral plant pathogens This volume discusses various techniques based on biological immunological and genetic properties of the pathogens indicating their advantages and limitations for selecting the appropriate technique to fulfill the requirements Features Presents techniques useful for detection identification quantification of microbial plant pathogens in plants soil and irrigation water from waterbodies Highlights subversive activities of viruses resulting in the breakdown of host defense systems Discusses RNA silencing in infected plants by viruses and posttranscriptional gene silencing PTGS functioning as an endogenous mechanism in plants against virus infection Presents information on methods of assessment of genetic variability and sensitivity of microbial plant pathogens to chemicals and adverse environmental conditions Plant Viruses, Volume II: Molecular Plant Virus Epidemiology and its Management Rajarshi kumar Gaur, Akhtar Ali, Xiaofei Cheng, Kristiina Mäkinen, Bright Agindotan, Xifeng Recognition and Response in Plant-Virus Interactions Ronald S.S. Fraser, 2013-06-29 Wang, 2021-12-30 Mechanisms of resistance to plant viruses are diverse and probably involve different types of recognition events Often a cascade of changes affecting broader aspects of defence and metabolism is switched on progressively after the initial recognition event Virulence i e resistence breaking behaviour of the virus involves a failure or alteration of recognition or subsequent signalling Consequences of these recognition events are the ways in which the pathogenic effects on the host are exerted formation of visible symptoms and control of plant growth This volume offers a comprehensive coverage of the recognition and signalling events between plants and viruses whereby the particular attraction of viruses and viroids is that they can now be completely defined in molecular terms they offer excellent opportunities for studying the molecular biology of signalling and may even provide useful guidelines on how plants and cellular pathogens interact **Plant Viruses: Evolution and Management** Rajarshi Kumar Gaur, Nikolay Manchev Petrov, Basavaprabhu L. Patil, Mariya Ivanova Stoyanova, 2016-08-29 This book focuses on the evolution of plant viruses their molecular classification epidemics and management covering topics relating to evolutionary mechanisms viral ecology and emergence appropriate analysis methods and the role of evolution in taxonomy The currently emerging virus species are increasingly becoming a threat to our way of life both economically and physically Plant viruses are particularly significant as they affect our food supply and are capable of rapidly spreading to new plant species In basic research plant viruses have become useful models to analyze the molecular biology of plant gene regulation and cell cell communication The small size of DNA genome of viruses possesses minimal

coding capacity and replicates in the host cell nucleus with the help of host plant cellular machinery Thus studying virus cellular processes provides a good basis for explaining DNA replication transcription mRNA processing protein expression and gene silencing in plants A better understanding of these cellular processes will help us design antiviral strategies for plants The book provides in depth information on plant virus gene interactions with hosts localization and expression and the latest advances in our understanding of plant virus evolution their responses and crop improvement Combining characterization of plant viruses and disease management and presenting them together makes it easy to compare all aspects of resistance tolerance and management strategies As such it is a useful resource for molecular biologists and plant **Plant Viruses, Unique and Intriguing Pathogens** L. Bos,1999 Fundamentals of Plant Virology R virologists alike C Matthews, 2012-12-02 Fundamentals of Plant Virology is an introductory student text covering all of modern plant virology The author Dr R E F Matthews has written this coursebook based on his classic and comprehensive Plant Virology Third Edition Four introductory chapters review properties of viruses and cells and techniques used in their study Five chapters are devoted to current knowledge of all major plant viruses and related pathogens Seven chapters describe biological properties such as transmission host response disease ecology control classification and evolution of plant viruses A historical and future overview concludes the text Fundamentals of Plant Virology is a carefully designed instructional format for a plant virology course It is also an invaluable resource for students of plant pathology and plant molecular biology Summarizes knowledge on all aspects of plant virology Condenses all essential material from Plant Virology 3 e Compares basic properties of cells and viruses Outlines principles of gene manipulation technology Discusses serological techniques including monoclonal antibodies Geared to student level course Geminivirus: Detection, Diagnosis and Management R.K. Gaur, Pradeep Sharma, Henryk Czosnek, 2022-05-28 Geminivirus Detection Diagnosis and Management focuses on the latest techniques for managing diseases caused by these circular single stranded ss DNA genomes The most significant impact of plant diseases in host populations is often caused by emerging diseases whose incidence in a plant host is increasing as a result of long term changes in their underlying epidemiology Genetic changes in pathogen and host populations as well as changes in host ecology and environment are major factors contributing to disease emergence Understanding plant virus evolution is crucial for modeling the within host and between host dynamics and genetics of virus populations The book presents a comprehensive review of how these viruses develop including contributing factors such as population bottlenecks during cell to cell movement systemic colonization or between host transmission by different procedures Presented in five sections Detection and Diagnosis Emergence and Diversity Vector and Transmission Virus Host Interaction and Disease Management the book includes host range determinant and virulence factors involved in pathogenesis virus vector interactions during acquisition retention and transmission and evaluating management strategies to control Geminivirus The book is an essential reference for students and researchers interested in plant virology

particularly begomoviruses geminiviruses and vector transmission biology Introduces identification and characterization of geminiviruses that infect agricultural crops their wild relatives and weed hosts Discusses recombination and reassortment mechanisms influencing viral genetic diversity virulence and vector transmission Explores the origin evolution and bottlenecks of Geminiviruses Introduces identification and characterization of geminiviruses that infect agricultural crops their wild relatives and weed hosts Discusses recombination and reassortment mechanisms influencing viral genetic diversity virulence and vector transmission Explores the origin evolution and bottlenecks of Geminiviruses **Library of Congress Subject Headings** Library of Congress, 2012 Plant Virus-Host Interaction R.K. Gaur, Pradeep Sharma, Thomas Hohn, 2013-12-07 Plant Virus Host Interaction contains cutting edge research in plant molecular virology including pathogenic viroids and transport by insect vectors interference with transmission to control viruses and synergism with pivotal coverage of RNA silencing and the counter defensive strategies used by viruses to overcome the silencing response in plants With a clear focus on plant virus evolution including quantitative and population genetics Plant Virus Host Interaction provides insights on the major factors favoring disease emergence such as genetic change in pathogen and host populations and changes in host ecology and environment The book also examines socioeconomic implications of widespread plant viral agents Contributions from leading experts around the globe provide varied perspectives while comprehensive coverage ensures a complete look at this exciting field Covers the emergence of new viral diseases Provides molecular approaches for virus host interaction Highlights RNA silencing and counter defensive strategies Discusses socioeconomic implications of viral spread and mitigation techniques Biochemistry and Molecular Biology of Plant-pathogen Interactions Phytochemical Society of Europe, 1991 Contains the proceedings of an international symposium on plant pathogen interactions covering a broad range of topics of particular relevance to food production from the cucumber mosaic virus to the molecular responses of the potato to infection Library of Congress Subject Headings Library of Congress. Cataloging Applied Plant Virology L. P. Awasthi, 2020-05-14 Applied Plant Virology Advances Policy and Support Office, 2013 Detection and Antiviral Strategies provides an overview on recent developments and applications in the field of plant virology The book begins with an introduction to important advances in plant virology but then covers topics including techniques for assay detection and the diagnosis of plant viruses the purification isolation and characterization of plant viruses the architecture of plant viruses the replication of plant viruses the physiology of virus infected hosts vectors of plant viruses and the nomenclature and classification of plants The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases With contributions from an international collection of experts this book presents a practical resource for plant virologists plant pathologists horticulturalists agronomists biotechnologists academics and researchers interested in up to date technologies and information that advance the field of plant virology Covers the detection control and management of plant viruses Discusses antiviral strategies along with mechanisms of systemic induced

resistance to enhance the defense of plants against viruses Provides contributory chapters from expert plant virologists from different parts of the world Plant RNA Viruses Rajarshi Kumar Gaur, Basavaprabhu L. Patil, Ramasamy Selvarajan, 2023-03-22 Plant RNA Viruses Molecular Pathogenesis and Management provides wide ranging coverage on the recognition and signaling events between plants and RNA viruses The book examines the molecular biology of signaling host virus interaction RNA virus diversity and how plants and cellular pathogens interact Sections cover Virus Diversity and Diagnosis Virus Host Interactions and Virus Management Specific chapters discuss classification and nomenclature of viruses detail the molecular characteristics of viral genomes highlight the viral manipulation of cellular key regulatory systems for successful virus infection and discuss the movement of plant viruses into plant cells Additional topics include RNA plant viruses and host interaction detection and diversity of plant RNA viruses and strategies for combating and management of plant viruses With contributions from an international group of experts the book is a comprehensive reference for those in research academia industry and anybody engaging in the study of plant viruses at the molecular level Provides an overview of virus genome and nomenclature Covers plant virus biodiversity and ecology diversity mechanisms and opportunities Examines Plant Host Virus Interaction Discusses virus vector interaction and transmission Offers strategies for virus management both traditional and modern Genetic Engin W/ Plant Viruses T. Michael A. Wilson, Jeffrey W. Davies, 1992-09-25 Plant viruses as agents to modify the plant phenotype for good or evil The stability and utility of plant virus replicons Plant virus genomes as sources of novel functions for genetic manipulations Use ofn vitro transcription to study gene expression and replication of spherical positive sense Rna plant viruses Molecular pathologi of tobacco mosaic virus revealed by biollogically active DNAs Geminiviruses as gene vectors Geminiviruses as gene vectors Genetic engineering with double stranded DNA viruses Expression of plant viral genes in transgenic plants Genetic engineering with viroids

Plant Viruses C.L. Mandahar,2018-01-18 This book deals with the structure and replication of plant viruses viroids satellites of plant viruses and spiroplasmas and neatly sums up the state of our knowledge about these aspects of these pathogens Published information about single stranded positive sense RNA plant viruses is far greater than for any other group of plant pathogens. The book caters to the needs of students as well as researchers and is illustrated with micrographs figures of postulated models and genetic maps. Plant Viruses Rajarshi Kumar Gaur, SMP Khurana, Yuri Dorokhov, 2018-01-12 Plant viruses are significant as they affect our food supply and are capable of rapidly spreading to new plant species so a comprehensive study of plant viruses is important in understanding their pathogenesis and prevention This book focuses on the plant virus evolution their molecular classification epidemics and management. The key features in the book includes genome organization translation and replication virus coded proteinases structure of virus particles cell receptors and host range the RNA polymerase quasispecies dynamics and virus evolution and its natural habitats

Encyclopedia of Virology Brian W. J. Mahy, M. H. V. Van Regenmortel, 2008 Covers biological molecular and medical

topics concerning viruses in animals plants bacteria and insects this new ed has been extensively revised and updated to reflect the 50 % increase in identified and accepted viruses since 2000 Includes information on avian flu SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism

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