Roger Hull



COMPARATIVE PLANT VIROLOGY

second edition



Comparative Plant Virology 2nd Edition

RC Schank

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Comparative Plant Virology Roger Hull, 2009-03-10 Comparative Plant Virology provides a complete overview of our current knowledge of plant viruses including background information on plant viruses and up to date aspects of virus biology and control It deals mainly with concepts rather than detail The focus will be on plant viruses but due to the changing environment of how virology is taught comparisons will be drawn with viruses of other kingdomes animals fungi and bacteria It has been written for students of plant virology plant pathology virology and microbiology who have no previous knowledge of plant viruses or of virology in general Boxes highlight important information such as virus definition and taxonomy Includes profiles of 32 plant viruses that feature extensively in the text Full color throughout Applied Plant Virology L. P. Awasthi, 2020-05-14 Applied Plant Virology Advances 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 Health Under Biotic Stress Rizwan Ali Ansari, Irshad Mahmood, 2019-03-30 The current scenario of increasing sensitivity towards the sustainable agriculture has given a large space to extensively utilize natural resources that are environmental friendly and are a good replacement of chemicals in agriculture Application of organic additives in the sustainable disease management can provide new insight in sustenance of plant productivity along with improved host stress tolerance. In the present book we have focussed upon a range of organic strategies to control plant pathogens of wide spectrum in addition to maintaining robust plant health A detailed account on the application of organic additives has been discussed irrespective of their origin and nature In addition the methods of utilising these organic supplements in the management of plant diseases and promotion of plant yield in more economic way have also been presented with reference to developing underdeveloped and developed countries The book has included the works of eminent scholars from across the world thus flashing light on the key literature related to application of organic matters including phytoextracts chopped leaves composted organic manures and liquid manures in eco friendly agriculture The mechanisms underlying the effectiveness of these organic amendments in

promoting plant health has also been presented and discussed in understandable ways Plant Pathology Concepts and **Laboratory Exercises** Bonnie H. Ownley, Robert N. Trigiano, 2016-11-03 Explains disease characteristics of organisms that cause disease and how diseases interact with hosts and the environment Presents useful protocols procedures and advanced laboratory exercises with anticipated results and thought provoking questions Provides case studies of specific diseases and processes presented as a bulleted list supplying essential information at a glance Contains downloads with supplemental full color photos and PowerPoint slides to enhance understanding of material Includes complete updates to previous edition and The Border Between Kitavirids and Nege-Like Viruses: Tracking the Evolutionary Pace of full color illustrations Plant- and Arthropod-Infecting Viruses Juliana Freitas-Astua, Nikos Vasilakis, Arvind Varsani, Hideki Kondo, Pedro Luis Ramos-González, Sergey Morozov, Mengji Cao, 2022-06-07 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 virologists alike Enzyme Nanocarriers Daniela Cardinale, Thierry Michon, 2015-10-09 Enzyme immobilization on solid supports has been considered for a long time as an attractive solution to perform sophisticated organic synthesis which is required in the preparation of fine pharmaceutical chemicals But in the late 1990s the tremendous progress in molecular biology fundamentals opened up the Biochemistry and Molecular Biology of Plants Bob B. Buchanan, Wilhelm possibility of feeding a toolbox for b Gruissem, Russell L. Jones, 2015-08-31 With over 1000 original drawings and 500 photographs this work offers complete coverage of cell biology plant physiology and molecular biology **Plant Virology** Roger Hull, 2001-10-03 It has been ten years since the publication of the third edition of this seminal text on plant virology during which there has been an explosion

of conceptual and factual advances The fourth edition updates and revises many details of the previous editon while retaining the important older results that constitute the field's conceptual foundation Key features of the fourth edition include Thumbnail sketches of each genera and family groups Genome maps of all genera for which they are known Genetic engineered resistance strategies for virus disease control Latest understanding of virus interactions with plants including gene silencing Interactions between viruses and insect fungal and nematode vectors New plate section containing over 50 full color illustrations

Plant Pathogen Detection and Disease Diagnosis, Second Edition, P.

Narayanasamy, 2001-08-28 This work provides information on the detection identification and differentiation of all microbial plant pathogens presenting modern protocols for rapid diagnosis of diseases based on biological physical chemical and molecular properties It contains methods for the selection of disease free seeds and vegetatively propagated planting materials and quarantine techniques for screening newly introduced plant materials Structure and Physics of Viruses Mauricio G. Mateu, 2013-06-04 This book contemplates the structure dynamics and physics of virus particles From the moment they come into existence by self assembly from viral components produced in the infected cell through their extracellular stage until they recognise and infect a new host cell and cease to exist by losing their physical integrity to start a new infectious cycle Bio physical techniques used to study the structure of virus particles and components and some applications of structure based studies of viruses are also contemplated This book is aimed first at M Sc students Ph D students and postdoctoral researchers with a university degree in biology chemistry physics or related scientific disciplines who share an interest or are actually working on viruses We have aimed also at providing an updated account of many important concepts techniques studies and applications in structural and physical virology for established scientists working on viruses irrespective of their physical chemical or biological background and their field of expertise We have not attempted to provide a collection of for experts only reviews focused mainly on the latest research in specific topics we have not generally assumed that the reader knows all of the jargon and all but the most recent and advanced results in each topic dealt with in this book In short we have attempted to write a book basic enough to be useful to M Sc and Ph D students as well as advanced and current enough to be useful to senior scientists with an interest in Structural and or Physical Virology

Matthews' Plant Virology Richard Ellis Ford Matthews, Roger Hull, 2002 It has been ten years since the publication of the third edition of this seminal text on plant virology during which there has been an explosion of conceptual and factual advances. The fourth edition updates and revises many details of the previous editon while retaining the important older results that constitute the field's conceptual foundation. Key features of the fourth edition include Thumbnail sketches of each genera and family groups Genome maps of all genera for which they are known Genetic engineered resistance strategies for virus disease control Latest understanding of virus interactions with plants including gene silencing Interactions between viruses and insect fungal and nematode vectors. New plate section containing over 50 full color illustrations.

Diseases of Field and Horticultural Crops L. P. Awasthi, 2023-09-20 Viral Diseases of Field and Horticultural Crops details the fundamental and applied aspects of the viral diseases of field and horticultural crops The book opens with a historical introduction to plant virology important plant virologists and landmarks It continues with systematic coverage of viral diseases their economic significance disease symptoms host range mode of transmission diagnostic techniques geographic distribution epidemiology yield losses and control and management of the disease Contributions from an international group of virologists with a wide range of academic research professional and specialized backgrounds in plant virology makes Viral Diseases of Field and Horticultural Crops a comprehensive and must have resource for those engaged in the study and research of plant virology microbiology and plant pathology particularly viral diseases and their impact on field and horticultural crops Provides virus characterization according to the disease pattern and symptoms they cause Covers viral diseases of cereals oil seeds legumes commercial crops spices and condiments medicinal and aromatic crops forage crops vegetable crops fruit crops tree nuts among others Discusses advances like applications in nanotechnology molecular techniques for the detection and characterization of plant viruses and the development of technologies for detecting plant Plant Disease Control Richard N Strange, 2013-12-19 Explores the international impact of plant disease on man and how this is measured and diagnosed discusses epidemiology and the genetics of host parasite relations and looks at the range of defensive tactics currently available and those under development Plant Virology in Sub-Saharan Africa Jacqueline d'A. Hughes, Babajide O. Odu, 2003 Biocontrol Agents of Phytonematodes Tarique Hassan Askary, PR P Martinelli, 2015-06-29 Highlighting the use of biocontrol agents as an alternative to chemical pesticides in the management of plant parasitic nematodes this book reviews the current progress and developments in the field Tactful and successful exploitation of each biocontrol agent i e nematophagous fungi parasitic bacteria predaceous mites rhizobacteria mycorrhiza and predaceous nematodes has been described separately The contributors are 23 eminent nematologists and their Plant Virus-Host Interaction R.K. Gaur, Pradeep Sharma, Thomas information has been compiled in 19 chapters 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
International Review of Cytology V37 ,1974-08-27 International Review of Cytology V37
Virus Life in Diagrams Hans-Wolfgang Ackermann, Laurent Berthiaume, Michel Tremblay, 2021-06-23 This atlas presents 233 virus diagrams selected for their scientific content clarity originality and historic didactic and aesthetic value Virus Life in Diagrams assembles the many diagrams of viral life cycles particle assembly and strategies of nucleic acid replication that are scattered throughout the literature The diagrams cover vertebrate invertebrate plant bacterial fungal and protozoal viruses viroids and prions They offer a dynamic illustration of the time course of viral life cycles not available in photographs They also offer speculative elements that project the possible results of future research as well as historical documentation that shows the development of virology This valuable reference book for virologists microbiologists molecular biologists geneticists and students in these areas is the first atlas to compile illustrations of viral morphogenesis in one complete source
ICTV Code for the Description of Virus Characters J. G. Atherton, 1983-09-15

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