

Methods in Virology

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and HILARY KOPROWSKI*



VOLUME III



ACADEMIC PRESS New York • London

Methods In Virology Vol Iii

Paul Pumpens



Methods In Virology Vol Iii:

Society for Experimental Biology, Seminar Series: Volume 3, Analytical and Quantitative Methods in Microscopy G. A. Meek, H. Y. Elder, 1977-09-08 **Methods in Virology** Karl Maramorosch, Hilary Koprowski, 2014-06-28 Methods in Virology Volume VII focuses on the methods used in virology including radioimmunoassays microscopy hybridization and mutagenesis The selection first elaborates on monoclonal antibody techniques applied to viruses competition radioimmunoassays for characterization of antibody reactions to viral antigens and enzyme immunosorbent assays in plant virology Discussions focus on the principles of enzyme immunosorbent assay choice of enzyme and preparation of conjugate determination of immunoglobulin class and maintenance and specificity testing of hybridomas The text then elaborates on electron microscopy for the identification of plant viruses in in vitro preparations and cloning and expression of viral antigens in Escherichia coli and other microorganisms including influenza virus expression of foreign coding sequences in Escherichia coli hepatitis B virus electron microscope immunoelectron microscopy and imaging of nucleic acids The manuscript takes a look at the detection and characterization of subgenomic RNA in plant viruses exploring the gene organization of baculoviruses and spot hybridization for detection of viroids and viruses Topics include application to viral diseases mapping mutations of baculoviruses transcriptional mapping of baculovirus genomes and genetic mapping by blot hybridization The selection is a valuable source of information for researchers interested in the methods employed in virology *Comprehensive Virology* Heinz Fraenkel-Conrat, Robert R. Wagner, 2012-12-06 The time seems ripe for a critical compendium of that segment of the biological universe we call viruses Virology as a science having passed only recently through its descriptive phase of naming and numbering has probably reached that stage at which relatively few new truly new viruses will be discovered Triggered by the intellectual probes and techniques of molecular biology genetics biochemical cytology and high resolution microscopy and spectroscopy the field has experienced a genuine information explosion Few serious attempts have been made to chronicle these events This comprehensive series which will comprise some 6000 pages in a total of about 18 volumes represents a commitment by a large group of active investigators to analyze digest and expostulate on the great mass of data relating to viruses much of which is now amorphous and disjointed and scattered throughout a wide literature In this way we hope to place the entire field in perspective and to develop an invaluable reference and sourcebook for researchers and students at all levels This series is designed as a continuum that can be entered anywhere but which also provides a logical progression of developing facts and integrated concepts **EPA National Publications Catalog** United States. Environmental Protection Agency, 1994 **Innovative Approaches in Diagnosis and Management of Crop Diseases** Rakesh Kumar Singh, Gopala, 2021-09-28 This book is the first of the 3 volume Innovative Approaches in Diagnosis and Management of Crop Diseases which provides an abundance of new research and information on major diseases of various crops along with new techniques and technology for the detection of plant pathogens along with appropriate management

strategies Divided into three volumes and with chapters written by renowned and expert scientists working in different areas of plant pathology the volumes cover important diseases of crops incited by bacteria fungi viruses viroids phytoplasma and nematodes It addresses these disease challenges to commercial field and horticultural crops and their management Chapters cover recent advances in diagnosis and detection of diseases of rice wheat pulses guava aonla cucurbits ginger sesame cotton pigeonpea field pea small millets maize and cruciferous vegetables as well as ornamental plants Innovative Approaches in Diagnosis and Management of Crop Diseases Volume 1 focuses on the Mollicute class of bacteria It looks at the detection diagnosis and management of phytoplasma diseases and viroids CRISPR Cas9 genome editing in plants for virus resistance next generation sequencing technologies and more Key features Presents diverse research of leading plant pathologists on detection diagnosis and management of crop diseases Shares innovative and emerging techniques for diagnosis and management of major plant diseases Covers a vast array of important crops and their diseases Volume 2 looks specifically at the diseases of field and horticultural crops while Volume 3 reviews the advances in the use of nanomolecules and biocontrol agents Diagnosis and management of biotic stresses play a pivotal role in efficient agriculture production and together these volumes of Innovative Approaches in Diagnosis and Management of Crop Diseases provide reviews of crucial research to effectively advance the detection diagnosis and management of crop diseases

Plant Viruses, Volume I: Detection Methods, Genetic Diversity and Evolution Akhtar Ali, Bright Agindotan, Xifeng Wang, Rajarshi Kumar

Gaur, Xiaofei Cheng, Kristiina Mäkinen, 2022-01-21 *The Viroids* T.O. Diener, 2012-12-06 More than seven years have passed since the first monograph on viroids was published At that time the existence of viroids as a novel type of pathogen far smaller than viruses had been amply demonstrated and some of their unusual molecular properties had been elucidated but the entry of molecular biology into viroid research was still in its infancy Since that time our knowledge of the molecular properties of viroids has increased exponentially and viroids have become even more fascinating than was the case seven years ago Today aside from transfer RNA viroids are probably the best known type of RNA at least from a structural standpoint Much less is known of the mechanisms of viroid function such as the exact pathway and enzymology of viroid replication and the biochemistry of viroid pathogenesis Recently however emphasis in viroid research has shifted from structural to functional themes and important beginnings have been made in the elucidation of viroid structure function relationships With the discovery of viroidlike RNAs within the capsids of certain plant viruses and the finding of surprising structural similarities between viroids and plant satellite RNAs the conceptual gap between viroids and conventional viruses has significantly narrowed Even beyond virology connecting links with cellular RNAs have come to light and the long isolation of viroids [and viroidologists] has come to an end

Chemistry of Viruses C.A. Knight, 2012-12-06 In 1963 the first edition of Chemistry of Viruses was published as a contribution to the series on viruses sponsored by Protoplasmatologia An aim of the first edition was to review some major principles and techniques of chemical virology in a concise manner and

to accompany this review with a compilation of pertinent references It was anticipated that this exercise would be helpful to the author in his teaching and research and hopefully would be useful to readers as well The literature of virology has grown enormously since then and it is even more urgent to have a succinct survey In addition few authors have attempted to integrate the findings pertaining to the various major classes of viruses that is animal bacterial and plant viruses but rather have chosen to assemble large monographs dealing in depth with facts and fancies pertaining to specific groups of viruses Such works are valuable for pursuit of particular topics but fail to yield a brief integrated view of virology The present edition of Chemistry of Viruses aspires to such a review A serious attempt was made to deal concisely with every major topic of chemical virology and to present examples from different classes of viruses Numerous references are given to original articles and review papers as well as to selected books

Molecular Techniques in Food Biology Aly Farag El Sheikha, Robert E. Levin, Jianping Xu, 2018-01-02 Molecular Techniques in Food Biology Safety Biotechnology Authenticity Traceability explores all aspects of microbe food interactions especially as they pertain to food safety Traditional morphological physiological and biochemical techniques for the detection differentiation and identification of microorganisms have severe limitations As an alternative many of those responsible for monitoring food safety are turning to molecular tools for identifying foodborne microorganisms This book reviews the latest molecular techniques for detecting identifying and tracing microorganisms in food addressing both good foodborne microbes such as those used for fermentation and in probiotics and harmful ones responsible for foodborne illness and food quality control problems Molecular Techniques in Food Biology Safety Biotechnology Authenticity Traceability brings together contributions by leading international authorities in food biology from academe industry and government Chapters cover food microbiology food mycology biochemistry microbial ecology food biotechnology and bio processing food authenticity food origin traceability and food science and technology Throughout special emphasis is placed on novel molecular techniques relevant to food biology research and for monitoring and assessing food safety and quality Brings together contributions from scientists at the leading edge of the revolution in molecular food biology Explores how molecular techniques can satisfy the dire need to deepen our understanding of how microbial communities develop in foods of all types and in all forms Covers all aspects of food safety and hygiene microbial ecology food biotechnology and bio processing food authenticity food origin traceability and more Fills a yawning gap in the world literature on food traceability using molecular techniques This book is an important working resource for professionals in agricultural food science biomedicine and government involved in food regulation and safety It is also an excellent reference for advanced students in agriculture food science and food technology biochemistry microbiology and biotechnology as well as academic researchers in those fields

Immuno-Gold Electron Microscopy in Virus Diagnosis and Research Alexander D. Hyatt, Bryan Eaton, 2024-12-20 This book presents a wide variety of immuno gold techniques for use in virus diagnosis and research Protocols are presented for state of the art techniques including in situ

hybridization freeze substitution and the utilization of ultra small probes and replicas for use by virologists and electron microscopists identifying and studying viruses their components and replication in cells The procedures are described by eminent scientists and are pertinent to both experienced researchers and newcomers to this field who are interested in the localization of low antigenic mass structures

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 edition 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

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1972

Single-stranded RNA phages Paul Pumpens, 2020-02-03 This is a comprehensive guide to single stranded RNA phages family Leviviridae first discovered in 1961 These phages played a unique role in early studies of molecular biology the genetic code translation replication suppression of mutations Special attention is devoted to modern applications of the RNA phages and their products in nanotechnology vaccinology gene discovery evolutionary and environmental studies Included is an overview of the generation of novel vaccines gene therapy vectors drug delivery and diagnostic tools exploring the role of RNA phage derived products in the revolutionary progress of the protein tethering and bioimaging protocols Key Features Presents the first full guide to single stranded RNA phages Reviews the history of molecular biology summarizing the role RNA phages in the development of the life sciences Demonstrates how RNA phage derived products have resulted in nanotechnological applications Presents an up to date account of the role played by RNA phages in evolutionary and environmental studies

Diagnosis of Plant Virus Diseases R. E. F. Matthews, 2019-07-23 Diagnosis of Plant Virus Diseases presents a comprehensive summary of methods currently available for the diagnosis of plant diseases caused by viruses and viroids Up to date literature references are provided brief accounts of the basis for particular methods are included and detailed protocols are presented Procedures discussed include the use of host plants electron microscopy of in vitro preparations serological procedures especially forms of ELISA monoclonal antibodies serological specific electron microscopy and immunoblotting and nucleic acid hybridization procedures Strategies are outlined for implicating virus like pathogens as causes of diseases of unknown etiology and problems involved in identifying complexes of transmission dependent and helper viruses are discussed The book will be extremely useful for phytopathologists plant virologists and research students and workers in plant virology laboratories and diagnostic plant pathology laboratories

Scientific & Technical Series Emanuel Benjamin Ocran, 1973

The Plant Viruses R.G. Milne, 2013-11-09 The original aim of this book

was to cover different aspects of the traditionally filamentous potex carla poty clostero and capilloviruses The title The Filamentous Plant Viruses seemed the only suitable one but it has led us to discuss also the quite different filamentous viruses of the rice stripe group recently officially named the tenuivirus group which otherwise indeed might not have been conveniently covered in any volume of this series The question must be asked What is there new that justifies the presentation of a book of this kind An outline of the answer may be Among the traditional filamentous viruses much progress has been made in elucidating the physical structure of potexvirus particles and this work serves as an excellent model for discussion of and future experiments on the poty carla clostero and capilloviruses which have comparable structures although they are more difficult to manipulate Work on the structure and strategy of the genomes of poty viruses is however relatively advanced and at a very interesting stage The helper component that assists the aphid transmission of potyviruses has also recently received considerable attention although the more we know about that the less seems clear about the aphid transmission of the carlaviruses and clostero viruses which apparently neither possess nor require a helper component

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1971 **Plant Diseases and Vectors: Ecology and Epidemiology** Karl Maramorosch, 2012-12-02 Plant Diseases and Vectors Ecology and Epidemiology is the fourth in a five volume series of books on vectors of plant disease agents It is comprised of 10 chapters representing the expertise of 13 outstanding scientists from a total of seven different countries This book begins with a discussion on the ecological involvement of wild plants in plant virus pathosystems This is followed by the principles and applications of enzyme linked immunosorbent assay ELISA in diagnosing plant viruses and monitoring their movement in the environment The next two chapters detail the epidemiologies of diseases caused by leafhopper borne viruses mollicutes and rickettsia like organisms This book also covers the developments in understanding the importance of helper agents to the transmission ecologies of many aphid borne plant viruses It also encompasses the factors that can contribute to the epidemiology and control of a disease affecting a major agricultural crop of the world A vector of plant viruses not covered in earlier volumes of the series the host plant itself and the man made epidemiological hazards in major crops of developing countries are also described This volume will broaden the knowledge of transmission ecology and disease epidemiology not only by serving as a valuable supplemental textbook reference work and bibliographical source but also by catalyzing novel syntheses of thinking and stimulating further research in the area

Research Awards Index , Rhabdoviruses D. H. L. Bishop, 2018-01-17 The goal of this book series has been to provide an overview of rhabdovirology as a whole including an appraisal of current research findings suitable for students teachers and research workers To realize this goal many of the research leaders in the different disciplines of rhabdovirology were asked to contribute chapters

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