
Serology and Immunochemistry of Plant Viruses

M.H.V. Van Regenmortel

Serology And Immunochemistry Of Plant Viruses

D.G. Walkey



Serology And Immunochemistry Of Plant Viruses:

Serology and Immunochemistry of Plant Viruses M.H.V. Van Regenmortel, 2012-12-02 Serology and Immunochemistry of Plant Viruses investigates the antigenic properties of plant viruses. It looks at the practical aspects of plant virus serology along with the molecular basis of viral antigenicity: antigenic determinants in proteins, the structure of antibodies, virus purification, antiserum production, and the theoretical principles and practical implementation of the various serological techniques. It also considers the problems associated with identification and classification of plant viruses. Organized into 10 chapters, this volume begins with an overview of antigens and antigenic determinants before proceeding with a discussion of the immunochemistry of plant viruses, virus antibody binding, the role of quaternary structure in antigenicity, and the structure of viral antigenic determinants. The reader is also introduced to the methods and principles of purifying plant viruses, preparation of antisera, and purification of antibodies, antigen-antibody interaction, immunochemical techniques used with plant viruses, the role of quaternary structure on viral antigenicity, diagnosis of virus diseases, use of serological criteria for measuring the degree of relationship between viruses, and immunochemical studies of plant viruses. The book includes a bibliography with 1,400 references and a list of all the plant viruses that have been studied by serology. This book will be a useful resource for virologists and plant pathologists as well as for students and research workers in plant virology, plant pathology, microbiology, and general virology. *Serology and Immunochemistry of Plant Viruses*, 1980

Structure of Antigens Marc H. V. Van Regenmortel, 1992-02-03 Structure of Antigens discusses a variety of topics dealing with the structural basis of antigenicity. Topics include the analytical methods used to elucidate the structure of antigens, the structure of antibodies, the principles underlying modern immunoassays, and the measurement of antibody binding affinity and physicochemical principles and methodological aspects. The book also considers major groups of antigens distinguished by their functional activity and biological role, e.g., drugs, autoantigens, snake toxins, allergens, or by their association with particular biological systems, e.g., antigens of microorganisms. Structure of Antigens will provide a current, useful reference for researchers and graduate students in all fields of biological science who need an overview of antigenic specificity. **VOLUME 1** *Molecular Methods in Plant Pathology* Uma. S. Singh, Rudra P. Singh, 2017-12-14 Molecular Methods in Plant Pathology covers methods in phytopathology at the molecular level, including PCR techniques, electron microscopy, tissue culturing, and the cloning of disease-resistant genes. Phytopathologists, botanists, horticulturists, and anyone working in agriculture will find this a useful reference on biophysical, biochemical, biomolecular, and biotechnological methods.

The Plant Viruses M.H.V. Van Regenmortel, Heinz Fraenkel-Conrat, 2013-11-11 This volume of the series The Plant Viruses is devoted to viruses with rod-shaped particles belonging to the following four groups: the tobamoviruses named after tobacco mosaic virus, the tobamoviruses after tobacco, the hordeoviruses after the Latin hordeum in honor of the type member barley stripe mosaic virus, and the not yet officially recognized furoviruses, fungus-transmitted rod-shaped

viruses Shirako and Brakke 1984 At present these clusters of plant viruses are called groups instead of genera or families as is customary in other areas of virology This peculiarity of plant viral taxonomy Matthews 1982 is due to the fact that the current Plant Virus Subcommittee of the International Committee of Taxonomy of Viruses is deeply split on what to call the categories or ranks used in virus classification Some plant virologists believe that the species concept cannot be applied to viruses because this concept according to them necessarily involves sexual reproduction and genetic isolation Milne 1984 Murrant 1985 This belief no doubt stems from the fact that these authors restrict the use of the term species to biological species According to them a collection of similar viral isolates and strains does constitute an individual virus i e it is a taxonomy entity separate from other individual viruses

The Plant Viruses B.D. Harrison,A.F. Murrant,2013-06-29 This fifth volume in the series The Plant Viruses dealing with viruses with bipartite genomes completes the coverage of viruses with isometric particles and genomes consisting of single stranded positive sense RNA viruses that have tripartite and monopartite genomes of this kind were dealt with in Volumes 1 and 3 respectively How close are the affinities among the viruses within the groupings distinguished in this way All those with tripartite genomes are considered to be sufficiently closely related to be included in the family Bromoviridae whereas the monopartite genome viruses covered in Volume 3 clearly are a much more diverse collection Affinities among the viruses with bipartite genomes are considered in Chapter 1 of this volume along with the possible origins advantages and disadvantages of these genomes The conclusion reached from this assessment is that the bipartite genome viruses fall into four categories those within each category having closer affinities with viruses not included in this book than with viruses in the other categories No evidence was found that possession of a bipartite genome gives a virus overwhelming advantages over viruses of other sorts More probably any advantages are largely balanced by disadvantages and bipartite genomes may be best considered simply as an alternative design for the hereditary material of a virus

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 closteroviruses which apparently neither possess nor require a helper component

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 *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 *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 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 [Immunology in Plant Health and Its Impact on Food Safety](#) P.

Narayanasamy, 2005-01-20 Find out more about convenient immunoassays you can implement in your own research From the Foreword by M S Swaminathan Chairman of the M S Swaminathan Research Foundation The book provides remedies to the common maladies relating to quality and safety of dietary material Professor Narayanasamy has compiled and presented with great clarity the latest information on all aspects relating to immunology in plant health and food safety We owe Professor Narayanasamy a deep debt of gratitude for this labor of love in the cause of improving food and feed quality and safety *Immunology in Plant Health and Its Impact on Food Safety* suggests cost effective simple and sensitive immunological

techniques to assess plant health and food safety for the production of desirable foods feeds and timbers This book explores the structure and biochemical constituents of healthy plants and the abiotic and biotic stresses that can cause a marked reduction in quantity and quality of agricultural produce Researchers faculty members and graduate scholars in plant pathology microbiology biochemistry environmental sciences and food technology will find this text useful for producing healthy plants while maintaining a pollution free environment In Immunology in Plant Health and Its Impact on Food Safety methods to develop stress resistant cultivars are discussed to enable you to select the most suitable strategies for maintaining production and quality without the use of chemicals This valuable resource provides detailed instructions for employing immunoassays that are rapid reproducible and amenable for large scale application in place of cumbersome and expensive methods currently in use With this important tool you will be able to plan and develop programs to obtain agricultural produce of high quality acceptable for human and animal consumption With Immunology in Plant Health and Its Impact on Food Safety you ll learn more about agrosystems immunological reactions preparations of antisera immunodetection techniques plant stress interactions genetic manipulations disease resistance and the production of disease free plants mycotoxins chemical residues This essential guide provides you with access to a wide spectrum of information never before encompassed in a single book saving you time and energy Figures photographs and tables with appropriate data supply visual and factual support for the points discussed in the text Immunology in Plant Health and Its Impact on Food Safety includes a large number of citations over 1000 for further research and development in your chosen field of study

Electron Microscopy of Plant Pathogens Kurt Mendgen,Dietrich-Eckhardt Lesemann,2012-12-06 Plants fungi and viruses were among the first biological objects studied with an electron microscope One of the two first instruments built by Siemens was used by Helmut Ruska a brother of Ernst Ruska the pioneer in constructing electron microscopes H Ruska published numerous papers on different biological objects in 1939 In one of these the pictures by G A Kausche E Pfankuch and H Ruska of tobacco mosaic virus opened a new age in microscopy The main problem was then as it still is today to obtain an appropriate preparation of the specimen for observation in the electron microscope Beam damage and specimen thickness were the first obstacles to be met L Marton in Brussels not only built his own instrument but also made considerable progress in specimen preparation by introducing the impregnation of samples with heavy metals to obtain useful contrast His pictures of the bird nest orchid root impregnated with osmium were revolutionary when published in 1934 It is not the place here to recall the different techniques which were developed in the subsequent years to attain the modern knowledge on the fine structure of plant cells and of different plant pathogens The tremendous progress obtained with tobacco mosaic virus is reflected in the chapter by M Wurtz on the fine structure of viruses in this Volume New cytochemical and immunological techniques considerably surpass the morphological information obtained from the pathogens especially at the host parasite interface **Immuno-Gold Electron Microscopy in Virus Diagnosis and Research** Alexander D. Hyatt,Bryan

Eaton,1992-11-10 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

Methods in Virology Karl Maramorosch,Hilary Koprowski,2014-06-28 Methods in Virology Volume VIII focuses on the methods used in virology including microscopy hybridization viruses and fingerprint analysis The selection first offers information on the hybridization of viral nucleic acids applications of oligonucleotide fingerprinting to the identification of viruses and immunosorbent electron microscopy in plant virus studies Discussions focus on the detection of double stranded RNA principles and mechanisms of fingerprint analysis preparation of labeled nucleic acid probes and basic methods of nucleic acid hybridization The text then elaborates on quantitative transmission electron microscopy for the determination of mass molecular weight of viruses and use of thin sectioning for visualization and identification of plant viruses Topics include technical procedures for processing plant tissues cytological modifications of diagnostic value procedure and treatment of data to obtain the average mass of virus particles and applications in virology The book takes a look at the detection of genome linked proteins of plant and animal viruses methods for assay purification and characterization of prions and the use of mosquitoes to detect and propagate viruses The selection is a valuable source of information for researchers interested in the methods employed in virology *Plant Tissue Culture Manual* K. Lindsey,2013-11-11 **Immunology in Plant**

Science Trevor L. Wang,1986-07-31 Immunology is rapidly generating new insights into all areas of the plant sciences In this volume various disciplines in the plant sciences are brought together under the unifying theme of Immunology New applications of both antisera and monoclonal antibodies are presented in the context of recent research in the fields of plant physiology plant development and molecular biology Each chapter comprises a broad review written by an international scientist of the immunological aspects of current plant studies with a particular emphasis on techniques The presentation of these step by step techniques appended to each chapter will make this volume of practical interest to both the advanced undergraduate and research worker in plant biology *The Plant Viruses* R.I.B. Francki,2013-06-29 It has been known for a long time that the majority of plant viruses contain RNA and in the past decade and a half it has been realized that many have genomes consisting of three molecules of single stranded RNA with positive polarity Among these are viruses belonging to four groups recognized by the International Committee for Virus Taxonomy the Bromovirus and Cucumovirus groups whose genomes are encapsidated in small icosahedral particles or the Ilarvirus and alfalfa mosaic virus groups with spheroidal or bacilliform particles In addition to their tripartite genomes these viruses share a number of other properties and it has been proposed that they should perhaps be grouped in a single virus family for which the name Tricornaviridae has

been suggested the tri indicating the tripartite nature of the genome the co emphasizing the cooperation of the three genome parts required to initiate infection and the rna indicating that the genome is composed of RNA Viruses of this family are less uniform in their biological proper ties A number of them are widespread causing very destructive plant diseases Viruses such as those of cucumber mosaic and alfalfa mosaic have very extensive host ranges and are responsible for serious crop losses in many parts of the world Others such as prunus necrotic ringspot or prune dwarf viruses are more restricted in their host ranges but never theless infect important perennial hosts such as stone fruits and reduce productivity considerably Plant Virus Serology , **Applied Plant Virology** D.G. Walkey,2012-12-06 For the past twenty years I have worked as an applied plant virologist attempting to identify and control virus diseases in field crops During the last ten years it has been my privilege to present short courses in plant virology to final year students studying plant pathology micro biology and general botany Throughout the period I have been lecturing it has been possible to recommend several excellent library books for further reading in plant virology but there has been no publication covering applied plant virology that a student might consider purchasing With teaching requirements in mind this book has been written to provide a concise introduction to applied plant virology based on the experiences I have gained working on virus diseases both in an applied laboratory and in the field The text concentrates on introducing the reader to aspects of plant virology that would be encountered every day by an applied virologist trying to identify viruses and develop control measures for virus diseases of crop plants Although a brief introduction to virus structure and its terminology is given in the opening chapter of the book no attempt is made to cover in detail the more fundamental aspects of virus structure biochemistry and replication Similarly the symptoms caused by individual viruses are not described although the various types of symptoms that plant viruses cause and which might be encountered by a student or research worker are described *Plant Virology* R C Matthews,2012-12-02 Major developments have taken shape in the ten years since the publication of Plant Virology Second Edition This Third Edition of the leading comprehensive text and reference for the field contains more than sixty percent new material including applications and results of gene manipulation techniques As with the first and second editions this volume covers all aspects of plant virology from molecular to ecological Plant Virology Third Edition is intended for graduate students researchers and teachers in plant virology plant pathology general virology and microbiology and scientists in related areas of molecular biology biochemistry plant physiology and entomology

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