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# Serology and Immunochemistry of Plant Viruses

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M.H.V. Van Regenmortel

# Serology And Immunochemistry Of Plant Viruses

**R.G. Milne**



## **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

**Current Topics in Vector Research**, 2012-12-06 Vector transmission of pathogens affecting human, animal, and plant health continues to plague mankind both in industrialized and Third World countries. The diseases caused by these pathogens cost billions of dollars annually in medical expenses and lost productivity. Some cause widespread loss of food and fiber-producing plants and animals, whereas others present direct and immediate threats to human life and further development in Third World countries. During the past 15 years or so, we have witnessed an explosive increase in interest in how vectors acquire, carry, and subsequently inoculate disease agents to human, animal, and plant hosts. This interest transcends the boundaries of any one discipline and involves researchers from such varied fields as human and veterinary medicine, entomology, plant pathology, virology, physiology, microbiology, parasitology, biochemistry, molecular biology, genetic engineering, ultrastructure, biophysics, biosystematics, biogeography, ecology, behavioral sciences, and others. Accompanying and perhaps generating this renewed interest is the realization that fundamental knowledge of pathogen-vector-host interrelationships is a first and necessary step in our quest for efficient, safe methods of disease control. **Plant Pathologist's Pocketbook** J. M. Waller, Jillian M. Lenné, Sarah J. Waller, 2002 This book contains 5 sections covering the main activity groups in plant pathology. Topics discussed include epidemiology and disease forecasting, disease management, disease resistance, biochemical and molecular techniques, and electronic databases and information technology. *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 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

*Testing Methods for Seed-transmitted Viruses* S. E. Albrechtsen, 2006 This practical guide covers the commonly used detection methods for seed transmitted viruses and viroids that affect both tropical and temperate crops It contains 25 complete step by step procedures for biological serological and molecular techniques to detect and identify such viruses Combining helpful practical notes with more detailed explanations of the principles behind the techniques the book describes the general characteristics of seed transmitted viral diseases and discusses outlines for the organization and interpretation of seed health assays The techniques reviewed are also applicable to non seed transmitted viral agents

Plant Virology Roger Hull, 2013-10-31 The seminal text Plant Virology is now in its fifth edition It has been 10 years since the publication of the fourth edition during which there has been an explosion of conceptual and factual advances The fifth edition of Plant Virology updates and revises many details of the previous edition while retaining the important earlier results that constitute the field's conceptual foundation Revamped art along with fully updated references and increased focus on molecular biology transgenic resistance aphid transmission and new cutting edge topics bring the volume up to date and maintain its value as an essential reference for researchers and students in the field 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 Contains over 300 full color illustrations

**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 potyvirus particles and this work serves as an excellent model for discussion of and future experiments on the potyviruses and capilloviruses which have comparable structures although they are more difficult to manipulate. Work on the structure and strategy of the genomes of potyviruses 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.

*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 Potyvirus Taxonomy** Ortus W. Barnett, 2012-12-06. A number of economically important diseases are caused by potyviruses, the largest group of plant viruses. Many of these diseases are distributed worldwide. The development of effective control strategies against viruses is dependent on the availability of reliable methods of identification and detection. To date this has not seemed possible for the potyvirus group because of its size, complexity and immense variation. This book brings together the collaborative efforts of experts in the field. It summarizes characteristics of potyviruses which relate to their taxonomy and points to areas which require consideration before an international consensus can be reached. Main topics dealt with in detail are serological relationships, nucleic acid sequence information, biological properties and specific problems with several virus subgroups or pairs of viruses.

**Horticulture — New Technologies and Applications** J. Prakash, R.L.M. Pierik, 2012-12-06. In November 1990, Indo American Hybrid Seeds (IAHS), one of the largest and very innovative horticultural enterprises of its kind in India, celebrated its silver jubilee year in the town of Bangalore, India. On the occasion of this silver jubilee of IAHS, an International Seminar on New Frontiers in Horticulture was organized from 25-28th of November 1990 at the Ashok Radisson Hotel in Bangalore. IAHS was almost fully responsible in terms of organization and financially for this International Seminar. Assisted by an International Scientific Advisory Board, the organizing committee, all members of the company, IAHS, really did a great job. I would like to thank in particular Mr. Mammohan Attavar, the company's founder, and Mr. Sri N. K. Bhat, partner of the company, respectively chairman and treasurer of the organizing committee, for their organizational and financial support in organizing this conference. Very special words of thanks go to my colleague, editor Dr. Jitendra Prakash, Secretary, Organizing committee.

and Director of Biotechnology IAHS who was really the spill in the whole organization of our very successful conference

*Laboratory Diagnosis of Infectious Diseases Principles and Practice* Edwin H. Lennette, Pekka Halonen, Frederick A. Murphy, 2012-12-06 those who deal with infectious diseases on a daily This two volume work stems from the belief of the Editors that infectious diseases are not only very basis much with us today but more importantly that they There are several excellent textbooks dealing will continue to play a significant global role in mor with medical microbiology and there are equally bidity and mortality in all people A continuing need well recognized books devoted to infectious dis for an informed and knowledgeable community of eases The Editors of this work on the other hand were persuaded that there was a need for a publica laboratory scientists is fundamental Data describing tion that would bring together the most pertinent and the global impact of infectious diseases are difficult to come by Fortunately a recent thoughtful and relevant information on the principles and practice of provocative publication by Bennett et al 1987 pro the laboratory diagnosis of infectious diseases and vides us with data derived from several consultants include clinical relationships While this two volume that clearly delineate the impact of infectious dis text is directed toward the role of the laboratory in eases on the United States today

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 **Immunochemistry** Vanoss, 1994-08-24 This work offers comprehensive coverage of the chemical and physicochemical aspects of immunological interactions as well as the molecules and moieties involved in these interactions It covers in detail the Ag Ab interaction including attraction at a distance between epitope and paratope College or university bookstores may order five or more copies at a special student price available upon request **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 parti cles 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 ge nomes 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

*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

**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

*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

*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.

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.



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