

*Handbook of*  
***Plant virus infections***  
*Comparative diagnosis*

*edited by*  
EDOUARD KURSTAK

# Handbook Of Plant Virus Infections Comparative Diagnosis

**Gary D. Foster, Sally Taylor**



## **Handbook Of Plant Virus Infections Comparative Diagnosis:**

Handbook of Plant Virus Infections Kurstak E.,1976      **A Critical Appraisal of Viral Taxonomy** R. E. F.

Matthews,2018-01-18 The overall aim of this volume is to review critically the current state of and future prospects for developments in viral taxonomy Most of the contributors to this volume have had substantial period of service on the Executive Committee and sub committees of the International Committee on Taxonomy of Viruses ICTV      Molecular Plant Virology Jeffery W. Davis,2018-05-04 In calling this series Molecular Plant Virology I had in mind aspects of plant virology of interest to biochemists molecular geneticists biophysicists genetic engineers or collectively molecular biologists At the same time the intention was to provide up to date reviews by expert contributors on current research topics in plant virology of interest and referential use to virologists and plant biologists The selected topics are pitched mainly at a research level but with sufficient introduction and cross referencing to enable graduate students to enter this fascinating field and hopefully not get lost      **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 properties 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 nevertheless infect important perennial hosts such as stone fruits and reduce productivity considerably      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

The Plant Viruses Renate Koenig,2012-12-06 Mechanisms of Resistance to Plant Diseases R.S. Fraser,2012-12-06 Plant resistance to pathogens is one of the most important strategies of disease control Knowledge of resistance mechanisms and of how to exploit them has made a significant contribution to agricultural productivity However the continuous evolution of new variants of pathogen and additional control problems posed by new crops and agricultural methods creates a need for a corresponding increase in our understanding of resistance and ability to utilize it The study of resistance mechanisms also has attractions from a purely academic point of view First there is the breadth of the problem which can be approached at the genetical molecular cellular whole plant or population levels Often there is the possibility of productive exchange of ideas between different disciplines Then there is the fact that despite recent advances many of the mechanisms involved have still to be fully elucidated Finally and compared with workers in other areas of biology the student of resistance is twice blessed in having as his subject the interaction of two or more organisms with the intriguing problems of recognition specificity and co evolution which this raises

**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

Plant DNA Infectious Agents Thomas Hohn,Josef Schell,2012-12-06 There has been recent rapid progress in the transformation of plants with foreign DNA making use either of the natural routes of genetic invasion that viruses and bacteria have developed or of chemical mechanical and electrical tricks to make plant protoplast membranes permeable to nucleic acids Genes integrated into plant virus genomes can be carried systemically from the initial site of infection into the rest of the plant Genes placed between the borders of *Agrobacterium tumefaciens* T DNA can be transferred into single cells or plant tissue which then divides to produce wound calli or as in the case of an *Agrobacterium rhizogenes* infection grow out into new roots Calli and roots can be grown into whole plants If virus genomes are placed between the T DNA borders a very effective infectious route termed agroinfection is established Once inside a protoplast DNA finds its way into the nucleus

where it can finally integrate into the resident chromosome and be expressed Whether it can also find its way into chloroplasts is not yet clear but at least translation products can be targeted into this organelle Regeneration of whole organisms from single cells is a special feature of plants and offers a unique tool to study genes in a multicellular organism In addition as in animal cells transcription and translation of trans forming genes can be studied in plant cells during transient expression

**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

**Atlas Of Plant Viruses** Robert G. Francki R.I.B; Milne,2018-01-18 This book assembles a comprehensive collection of plant virus electron micrographs of good quality offers a consistent treatment and backs the visual data with a consistent and comprehensive text Although this book is primarily about the structure of virus particles and infected cells the results of biochemical experiments are referred too when relevant so that the virus particles described appear as part of a replicating complex Similarly infected cells are portrayed as active rather than static structures

Plant Virology Protocols Gary D. Foster,Sally Taylor,2008-02-03 The aim of Plant Virology Protocols is to provide a source of information to guide the reader through the wide range of methods involved in generating transgenic plants that are resistant to plant viruses To this end we have commissioned a wide ranging list of chapters that will cover the methods required for plant virus isolation RNA extraction cloning coat protein genes introduction of the coat protein gene into the plant genome and testing transgenic plants for resistance The book then moves on to treatments of the mechanisms of resistance the problems encountered with field testing and key ethical issues surrounding transgenic technology Although Plant Virology Protocols deals with the cloning and expression of the coat protein gene the techniques described can be equally applied to other viral genes and nucleotide sequences many of which have also been shown to afford protection when introduced into plants The coat protein has however been the most widely applied and as such has been selected to illustrate the techniques involved Plant Virology Protocols has been divided into six major sections containing 55 chapters in total

Nucleic Acid Probes Robert H. Symons,1989-03-31 With each chapter written by a distinguished expert in the biochemistry field this comprehensive volume describes the preparation and use of a variety of radioactive and non radioactive probes in situations ranging from research laboratories to routine diagnosis laboratories The enzymatic and chemical techniques for labeling nucleic acid probes with radioisotopes and with non radioactive ligands and haptens are discussed Additionally the associated methods for their detection the use of these probes in the diagnosis of human and microbial pathogens of plant viruses and viroids and of human genetic disorders as well as in the detection of nucleic acids in tissues and cells by in situ hybridization are presented

**Advances in Virus Research** ,1984-01-04 Advances in Virus

Research     The Phytopathogen Abhijeet Ghatak, Mohammad Ansar, 2017-03-31 So often new phytopathogens emerge and appear primarily in acute form and then take a chronic form such populations however in general have a limited appearance because of the lack of suitable environmental conditions The emergence of new pathogens needs to be explored in the light of their evolutionary adaptation This new volume focuses on the study of quantitative aspects of host phytopathogen linkages that result in the emergence of aggressive phytopathogens The book examines the evolution and adaptation of phytopathogens from several cropping systems     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     *Essentials of Virology* S. Ram Reddy, S.M. Reddy, 2012-07-01 This book provides the entire basic information required for the beginner of virology All types of viruses including subviral agents viroids and prions are dealt in an orderly manner with profuse illustrations A comprehensive and update account of principles of virology taxonomy replication strategies diagnostic techniques and management of viral diseases is the major attraction of this book The information provided will be useful to undergraduate and post graduate students of all disciplines of biology including agriculture veterinary pharmacy and medicine It also fulfils the long felt needs of researchers and teachers of all biological sciences An important book must for all college and university libraries     *Molecular Plant Virology* Davis, 2018-05-04 In calling this series Molecular Plant Virology I had in mind aspects of plant virology of interest to biochemists molecular geneticists biophysicists genetic engineers or collectively molecular biologists At the same time the intention was to provide up to date reviews by expert contributors on current research topics in plant virology of interest and referential use to virologists and plant biologists The selected topics are pitched mainly at a research level but with sufficient introduction and cross referencing to enable graduate students to enter this fascinating field and hopefully not get lost     **Virus Taxonomy** Frederik A. Murphy, Claude M. Fauquet, David H.L. Bishop, Said A. Ghabrial, Audrey W. Jarvis, Giovanni P. Martelli, Mike A. Mayo, Max D. Summers, 2012-12-06 Virology Division International Union of Microbiological Societies     **Viruses and Virus Diseases of Vegetables in the Mediterranean Basin** Gad Loebenstein, Hervé Lecoq, 2012-06-25 This volume of Advances in Virus Research focuses on mycoviruses The authors and reviews represent the most current and cutting edge research in the field A broad range of research is presented from research experts Contributions from leading authorities Informs and updates on all the latest developments in the field

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