

## List Plant Virology Journals

**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.**

**All the information you need on plant viruses in a single volume The Handbook of Plant Virology is a comprehensive guide to the terms and expressions commonly used in the study of plant virology, complete with descriptions of plant virus families down to the generic level. Rather than simply listing terms in alphabetical order, this unique book links each term to related terms within a theme and adds commentary from authors whose specific expertise adds additional dimensions to the topics. The result is an invaluable resource for research workers, educators, and students working in plant virology and pathology, crop protection, molecular biology, and plant breeding. The Handbook of Plant Virology provides enough details and background in the discussion of each topic to present a clear and thorough understanding of terms without the lengthy analysis found in most textbooks. The book's first section covers: the mechanics of virus classification internal and external symptoms (with color illustrations) isolation and purification genome packaging replication and gene expression detection and identification various methods of virus transmission serology forecasting disease development recombination control strategies economic importance and much more The second section of The Handbook of Plant Virology is devoted to concise descriptions of the 81 genera and 18 families of plant viruses, including: positive-sense, single-stranded RNA viruses, such as Potyviridae, Sequiviridae, and Comoviridae double-stranded RNA viruses, such as Reoviridae and Partitiviridae negative-sense, single-stranded RNA viruses, such as Rhabdoviridae and Bunyaviridae single-stranded DNA viruses, such as Geminiviridae, Pseudoviridae, Metaviridae The Handbook of Plant Virology also includes photos, illustrations, figures, diagrams, and brief, but detailed, bibliographies. The book's concise mix of information on currently assigned taxonomic families and the genera of plant viruses make it an essential reference tool for practitioners, researchers, educators, and students.**

**Plant Virology Academic Press**

**Advances, Detection, and Antiviral Strategies**

**Guide to Sources for Agricultural and Biological Research**

**VIIIth Report of the International Committee on Taxonomy of Viruses**

**Agricultural Libraries Information Notes**

**1889-1965**

*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.*

*"...Comprises names of viruses and their higher order taxa as well as terms which are commonly used in the virological literature."--Introd.*

*Virus Taxonomy is a standard and comprehensive source for the classification of viruses, created by the International Committee of the Taxonomy of Viruses. The book includes eight taxonomic reports of the ICTV and provides comprehensive information on 3 taxonomic orders of viruses, 73 families, 9 subfamilies, 287 genera, and 1938 virus species. The book also features about 429 colored pictures and diagrams for more efficient learning. The text is divided into four parts, comprised of 16 chapters and presenting the following features:*

- Compiled data from numerous international experts about virus taxonomy and nomenclature*
- Organized information on over 6000 recognized viruses, illustrated with diagrams of genome organization and virus replication cycle*
- Data on the phylogenetic relationships among viruses of the same and different taxa*
- Discussion of the qualitative and quantitative relationships of virus sequences*

*The book is a definitive reference for microbiologists, molecular biologists, research-level virologists, infectious disease specialists, and pharmaceutical researchers working on antiviral agents. Students and novices in taxonomy and nomenclature will also find this text useful. \* The standard official ITCV reference for virus taxonomy and nomenclature, compiling data from 500 international experts \* Covers over 6000 recognized viruses, organized by family with diagrams of genome organization and virus replication cycle \* Provides data on the phylogenic relationships between viruses belonging to the same or different taxa \* Now includes information about the qualitative and quantitative relationships between virus sequences*

*Plant Pathology*

*A Text-book of Mycology and Plant Pathology*

*Impact, Challenges and Approaches*

*Directory & Dictionary of Animal, Bacterial, and Plant Viruses*

**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.

This fifth edition of the classic textbook in plant pathology outlines how to recognize, treat, and prevent plant diseases. It provides extensive coverage of abiotic, fungal, viral, bacterial, nematode and other plant diseases and their associated epidemiology. It also covers the genetics of resistance and modern management on plant disease. Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color photographs and illustrations. The latest information on molecular techniques and biological control in plant diseases Comprehensive in coverage Numerous excellent diagrams and photographs A large variety of disease examples for instructors to choose for their course

Excerpt from Check List of Publications of the State Agricultural Experiment Stations on the Subject of Plant Pathology, 1876-1920, Vol. 2: Compiled in the Library of the Bureau of Plant Industry Prepared by the late Eunice R. Oberly, Librarian, and Jessie M. Allen, Assistant Librarian, Bureau of Plant Industry. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Author and Subject Index to the Publications on Plant Pathology Issued by the State Agricultural Experiment Stations Up to December 1, 1927

Diversity, Interaction and Management

New Zealand Journal of Agricultural Research

Virus Taxonomy

A Partial List of Plant Pathology Publications by Workers at the North Carolina Agricultural Experiment Station, Extension Service, and State College

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.

This book offers a collection of information on successive steps of molecular 'dialogue' between plants and pathogens. It additionally presents data that reflects intrinsic logic of plant-parasite interactions. New findings discussed include: host and non-host resistance, specific and nonspecific elicitors, elicitors and suppressors, and plant and animal immunity. This book enables the reader to understand how to promote or prevent disease development, and allows them to systematize their own ideas of plant-pathogen interactions. \* Offers a more extensive scope of the problem as compared to other books in the market \* Presents data to allow consideration of host-parasite relationships in dynamics and reveals interrelations between pathogenicity and resistance factors \* Discusses beneficial plant-microbe interactions and practical aspects of molecular investigations of plant-parasite relationships \* Compares historical study of common and specific features of plant immunity with animal immunity

Learn to produce healthier crops and better harvests! This uniquely valuable book highlights the tremendous progress of knowledge in different areas of the field over the last decade. Here you'll find new and useful information about plant molecular virology and how the field can improve the world food situation in the coming years. The last decade has seen remarkable advances in plant virological research, owing mainly to the rapid progress made in molecular biology and genetic engineering in recent years. While recombinant DNA technology has significantly contributed to our understanding of plant viruses, new findings are being accumulated every day as reported in various publications. Plant Viruses As Molecular Pathogens is the only book to bring you all of this information--22 chapters--in a single volume, compiled by specialists around the globe! Use Plant Viruses As Molecular Pathogens to enhance your knowledge of: current virus taxonomy the molecular basis of virus transmission movement of plant viruses replication and gene expression of RNA/DNA viruses resistance to viruses molecular epidemiology recombination events and possible mechanisms molecular diversity novel aspects of plant virus detection technologies With helpful illustrations, photos, figures, models that explain viral mechanisms, and easy-to-understand reference tables, Plant Viruses As Molecular Pathogens will stimulate your thinking on this fascinating area of plant science!

From Ecology to Control

Check List of the Publications of the Department of Agriculture on the Subject of Plant Pathology

Virus and Virus-like Diseases of Pome and Stone Fruits

Current Research Topics in Plant Virology

Handbook of Plant Virology

Seeds provide an efficient means in disseminating plant virus and viroid diseases. The success of modern agriculture depends on pathogen free seed with high yielding character and in turn disease management. There is a serious scientific concern about the transmission of plant viruses sexually through seed and asexually through plant propagules. The present book provides

the latest information along with the total list of seed transmitted virus and viroid diseases at global level including, the yield losses, diagnostic techniques, mechanism of seed transmission, epidemiology and virus disease management aspects. Additional information is also provided on the transmission of plant virus and virus-like diseases through vegetative propagules. It is also well known that seed transmitted viruses are introduced into new countries and continents during large-scale traffic movements through infected germplasm and plant propagules. The latest diagnostic molecular techniques in different virus-host combinations along with disease management measures have been included. The book shall be a good reference source and also a text book to the research scientists, teachers, students of plant pathology, agriculture, horticulture, life sciences, green house managers, professional entrepreneurs, persons involved in quarantines and seed companies. This book has several important features of seed transmitted virus diseases and is a good informative source and thus deserves a place in almost all university libraries, seed companies and research organizations.

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

Excerpt from A Check List of the Publications of the Department of Agriculture on the Subject of Plant Pathology, 1937-1918 Contents: Pear-tree blight; F131 Island Cotton; Onion blight and smut (genus Peronospora); Yellows of the peach; Potato blight and rot. (see also Monthly Rpt., -1873. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Semiannual List of the Publications of the Faculty

Phytopathogenic Bacteria and Plant Diseases

Applied Plant Virology

Seed-borne plant virus diseases

Plant Pathology Branch

*The Molecular Biology of Viruses is a collection of manuscripts presented at the Third Annual International Symposium of the Molecular Biology of Viruses, held in the University of Alberta, Canada on June 27-30, 1966, sponsored by the Faculty of Medicine of the University of Alberta. This book is organized into eight parts encompassing 36 chapters that emphasize the biosynthetic steps involved in polymer duplication. The first two parts explore the specialized processes of the cycle of virulent and temperate bacteriophage multiplication. These parts also deal with the production, regulation of development, and selectivity of these bacteriophages. The subsequent two parts look into the heterozygosity, mutation, structure, function, and mode of infection of single-stranded DNA and RNA bacteriophages. The discussions then shift to the biological and physicochemical aspects, biosynthesis, translation, genetics, and replication of mammalian DNA and RNA viruses. The concluding parts describe the homology, interaction, functions, mechanism of transformation, metabolism, and carcinogenic activity of oncogenic viruses. This book is of great benefit to biochemists, biophysicists, geneticists, microbiologists, and virologists.*

*This book provides in-depth information on all key aspects of geminivirus biology, e.g. the genetics and evolution, global diversity and spread of these plant pathogens, as well as the molecular mechanisms underlying their virulence. Geminiviridae is one of the largest viral families, comprising numerous plant-infecting viruses that cause diseases in crops and weeds. These diseases have been reported from nearly all continents, in particular Asia, Europe, Africa and America. The book summarizes the current state of knowledge on the interactions between plant host and virus. In addition, it discusses advances regarding the trans-replication of satellite molecules and its effect on geminiviral pathogenesis, as well as pest management strategies to combat these diseases in the field. Given its scope, the book is a must-read reference guide for all researchers and advanced students working in virology, agriculture and plant biotechnology..*

*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*

*Check List of Publications of the State Agricultural Experiment Stations on the Subject of Plant Pathology, 1876-1920, Vol. 2*

*List of Journals Indexed in AGRICOLA.*

*A Partial List of Plant Pathology Publications by Workers at the North Carolina Agricultural Experiment Station, Extension Service, and N. C. State*

*University*

*Compiled in the Library of the Bureau of Plant Industry (Classic Reprint)*

*Comprehensive and Molecular Phytopathology*

**Plant viruses are significant as they affect our food supply and are capable of rapidly spreading to new plant species, so a comprehensive study of plant viruses is important in understanding their pathogenesis and prevention. This book focuses on the plant virus evolution, their molecular classification, epidemics and management. The key features in the book includes genome organization, translation and replication, virus-coded proteinases, structure of virus particles, cell receptors and host range, the RNA polymerase, quasispecies dynamics and virus evolution, and its natural habitats.**

**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 Topics covered in this book include RNA silencing and its suppression in plant virus infection, virus replication mechanisms, the association of cellular membranes with virus replication and movement, plant genetic resistance to viruses, viral cell-to-cell spread, long distance movement in plants, virus induced ER stress, virus diversity and evolution, virus-vector interactions, cross protection, geminiviruses, negative strand RNA viruses, viroids, and the diagnosis of plant viral diseases using next generation sequencing. This book was anticipated to help plant pathologists, scholars, professors, teachers and advanced students in the field with a comprehensive state-of-the-art knowledge of the subject.**

**Plant Pathogen Detection and Disease Diagnosis, Second Edition,**

**The Molecular Biology of Viruses**

**Matthews' Plant Virology**

**Grapevine Viruses: Molecular Biology, Diagnostics and Management**

**A Check List of the Publications of the Department of Agriculture on the Subject of Plant Pathology, 1937-1918 (Classic Reprint)**

Plant viruses cause many of the most important diseases threatening crops worldwide. Over the last quarter of a century, an increasing number of plant viruses have emerged in various parts of the world, especially in the tropics and subtropics. As is generally observed for plant viruses, most of the emerging viruses are transmitted horizontally by biological vectors, mainly insects. Reverse genetics using infectious clones-available for many plant viruses-has been used for identification of viral determinants involved in virus-host and virus-vector interactions. Although many studies have identified a number of factors involved in disease development and transmission, the precise mechanisms are unknown for most of the virus-plant-vector combinations. In most cases, the diverse outcomes resulting from virus-virus interactions are poorly understood. Although significant advances have been made towards understand the mechanisms involved in plant resistance to viruses, we are far from being able to apply this knowledge to protect cultivated plants from the all viral threats. The aim of this Special Issue was to provide a platform for researchers interested in plant virology to share their recent results. To achieve this, we invited the plant virology community to submit research articles, short communications and reviews related to the various aspects of plant virology: ecology, virus-plant host interactions, virus-vector interactions, virus-virus interactions, and control strategies.

This issue contains some of the best current research in plant virology.

This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1981.

The field of Phytobacteriology is rapidly advancing and changing, because of recent advances in genomics and molecular plant pathology, but also due to the global spread of bacterial plant diseases and the emergence of new bacterial diseases. So, there is a need to integrate understanding of bacterial taxonomy, genomics, and basic plant pathology that reflects state-of-the-art knowledge about plant-disease mechanisms. This book describes seventy specific bacterial plant diseases and presents up-to-date classification of plant pathogenic bacteria. It would be of great help for scientists and researchers in conducting research on ongoing projects or formulation of new research projects. The book will also serve as a text book for advanced undergraduate and postgraduate students of disciplines of Phytobacteriology and Plant Pathology. Contains latest and updated information of plant pathogenic bacteria till December 2018 Describes seventy specific bacterial diseases Presents classification of the bacteria and associated nomenclature

based on Bergey's Manual Systematic Bacteriology and International Journal of Systematic and Evolutionary Microbiology Discusses practical and thoroughly tested disease management strategies that would help in controlling enormous losses caused by these plant diseases Reviews role of Type I-VI secretion systems and peptide- or protein-containing toxins produced by bacterial plant pathogens Briefs about plants and plant products that act as carriers of human enteric bacterial pathogens, like emphasizing role of seed sprouts as a common vehicle in causing food-borne illness Dr B. S. Thind was ex-Professor-cum-Head, Department of Plant Pathology, Punjab Agricultural University Ludhiana, India. He has 34 years of experience in teaching, research, and transfer of technology. He has conducted research investigations on bacterial blight of rice, bacterial stalk rot of maize, bacterial blight of cowpea, bacterial leaf spot of green gram, bacterial leaf spot of chillies and bacterial soft rot of potatoes. He also acted as Principal Investigator of two ICAR-funded research schemes entitled, "Detection and control of phytopathogenic bacteria from cowpea and mungbean seeds from 1981 to 1986 and "Perpetuation, variability, and control of *Xanthomonas oryzae* pv. *oryzae*, the causal agent of bacterial blight of rice" from 1989 to 1993, and also of a DST funded research scheme "Biological control of bacterial blight, sheath blight, sheath rot, and brown leaf spot of rice" from 1999 to 2002. He also authored a manual entitled, "Plant Bacteriology" and a text book entitled, "Phytopathogenic Prokaryotes and Plant Diseases" published by Scientific Publishers (India). He is Life member of Indian Phytopathological Society, Indian Society of Plant Pathologists, Indian Society of Mycology and Plant Pathology, and Indian Science Congress Association.

Plant Pathologist's Pocketbook

Geminiviruses

Plant Virology

1889-1963

List of Publications

The domestication of grapes dates back five thousand years ago and has spread to nearly all continents. In recent years, grape acreage has increased dramatically in new regions, including the United States of America, Chile, Asia (China and India), and Turkey. A major limiting factor to the sustained production of premium grapes and wines is infections by viruses. The advent of powerful molecular and metagenomics technologies, such as molecular cloning and next generation sequencing, allowed the discovery of new viruses from grapes. To date, grapevine is susceptible to 64 viruses that belong to highly diverse taxonomic groups. The most damaging diseases include: (1) infectious degeneration; (2) leafroll disease complex; and (3) rugose wood complex. Recently, two new disease syndromes have been recognized: Syrah decline and red blotch. Losses due to fanleaf degeneration are estimated at \$1 billion annually in France alone. Other diseases including leafroll, rugose wood, Syrah decline and red blotch can result in total crop loss several years post-infection. This situation is further exacerbated by mixed infections with multiple viruses and other biotic as well as adverse abiotic environmental conditions, such as drought and winter damage, causing even greater destruction. The book builds upon the last handbook (written over twenty years ago) on the part of diagnostics and extensively expands its scope by inclusion of molecular biology aspects of select viruses that are widespread and economically most important. This includes most current information on the biology, transmission, genome replication, transcription, subcellular localization, as well as virus-host interactions. It also touches on several novel areas of scientific inquiry. It also contains suggested directions for future research in the field of grapevine virology.

Plant Viruses

Diagnosis of Plant Virus Diseases

Plant Viruses As Molecular Pathogens

A Check List of the Publications of the Department of Agriculture on the Subject of Plant Pathology, 1837-1918

Check List of Publications of the State Agricultural Experiment Stations on the Subject of Plant Pathology 1876-1920