

The Plant Viruses

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and
HEINZ FRAENKEL-CONRAT

II

 Springer

Plant Viruses Vol 2 The Rod Shaped Plant Viruses

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Molekulare Pflanzenvirologie Gerhart Drews, Günter Adam, Cornelia Heinze, 2013-03-07 Viruserkrankungen von Mensch und Tier wie etwa Influenza Masern Aids oder Maul und Klauenseuche sind in der Öffentlichkeit bekannt und neue Forschungsergebnisse und Therapieansätze zu diesen Krankheiten werden durch die Medien verbreitet und diskutiert Die molekularen Mechanismen der Virus Wirtsinteraktion werden intensiv untersucht Viel weniger ist bei Viruserkrankungen der Pflanzen bekannt die aber gleichwohl von großer Bedeutung sind weil sie jährlich weltweit beträchtliche wirtschaftliche Schäden an Kulturpflanzen hervorrufen Das erste Virus das als filtrierbares infektiöses Agens entdeckt wurde war das Tabak Mosaik Virus Wir wissen heute dass alle höheren Pflanzen von Viren fallen werden können Die Symptome und die Schwere der Erkrankung sind recht unterschiedlich Sie reichen von harmlosen oder erwünschten Veränderungen der Blätter und Blüten bis zu einem fast vollständigen Sterben der Pflanzen und damit dem Verlust der Ernte Nach Einführung biochemischer vor allem aber molekular-genetischer Methoden in die Pflanzenvirologie hat sich diese von einer beschreibenden zu einer kausal forschenden Wissenschaft entwickelt Heute bestimmen drei Schwerpunkte die Arbeit der Pflanzenvirologen 1 Analyse der Struktur des Virions und seines Genoms und damit verbunden die Verfeinerung der Diagnose und der Taxonomie 2 Untersuchung von Replikation und Morphogenese der Viren und ihrer Ausbreitung im Wirt sowie der Wechselwirkungen zwischen Wirt und Virus und 3 Bekämpfung von Viruserkrankungen durch epidemiologische Maßnahmen Resistenzentwicklung und Entwicklung resistenter transgener Pflanzen Tierische und pflanzliche Viren unterscheiden sich in wesentlichen Eigenschaften The Coronaviridae S. Siddell, 1995-09-30 This volume represents the most authoritative source of information on coronaviruses collected together in a single work Chapters provide an up to date account of the molecular biology of coronaviruses and toroviruses as well as the pathogenesis of coronavirus and torovirus infections Discussions emphasize the unique features of the coronaviridae and examine the concept of a coronavirus like superfamily Academic researchers and their students as well as clinicians and veterinarians with an interest in coronavirus related disease will benefit from this comprehensive reference

Viruses with Fungal Vectors Association of Applied Biologists, 1988 **Plant Viruses, Unique and Intriguing Pathogens** L. Bos, 1999 *Virology* Roger Hull, Fred Brown, Chris Payne, 1989-06-18 A comprehensive dictionary describing all known viruses of animal and plants It describes terms commonly used in virology as well as cell lines and chemicals used in organizations and the techniques applied in this work Equations formulae and definitions of units in virology are covered

Viral Diseases of Field and Horticultural Crops L. P. Awasthi, 2023-09-20 *Viral Diseases of Field and Horticultural Crops* details the fundamental and applied aspects of the viral diseases of field and horticultural crops The book opens with a historical introduction to plant virology important plant virologists and landmarks It continues with systematic coverage of viral diseases their economic significance disease symptoms host range mode of transmission diagnostic techniques geographic distribution epidemiology yield losses and control and management of the disease Contributions from an

international group of virologists with a wide range of academic research professional and specialized backgrounds in plant virology makes *Viral Diseases of Field and Horticultural Crops* a comprehensive and must have resource for those engaged in the study and research of plant virology microbiology and plant pathology particularly viral diseases and their impact on field and horticultural crops Provides virus characterization according to the disease pattern and symptoms they cause Covers viral diseases of cereals oil seeds legumes commercial crops spices and condiments medicinal and aromatic crops forage crops vegetable crops fruit crops tree nuts among others Discusses advances like applications in nanotechnology molecular techniques for the detection and characterization of plant viruses and the development of technologies for detecting plant viruses

Einführung in die allgemeinen Probleme Dieter Spaar,1980-12-31 Keine ausführliche Beschreibung für Einführung in die allgemeinen Probleme verfügbar

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

CRC Handbook of Viruses Infecting Legumes John R. Edwardson,Richard G. Christie,1991-09-11 This interesting handbook discusses 145 plant viruses in 27 groups and 31 unclassified viruses in naturally infected legumes The viruses were observed in field infections of 281 species in 64 genera of the Leguminosae The book presents information regarding resistance sources and resistance breeding vectors seed transmission and host ranges Measurements of virus properties are organized in tabular form for particle dimensions serological relationships nucleic acid percentages sedimentation coefficients of particles and nucleic acids molecular weights of nucleic acids and coat proteins optical density and buoyant density Handbook of Viruses Infecting Legumes is unique in that it relates inclusion cytology to plant virus detection identification and classification Light and electron micrographs illustrate morphology location and staining reactions of inclusions Of the 27 groups that contain viruses infecting legumes in nature inclusions are diagnostic at the group level in 15 of these groups Plant breeders diagnosticians plant virologists and students of plant virology will find this an indispensable guide to legume viruses

The Plant Pathology Journal ,2001

Acta Phytopathologica Et Entomologica Hungarica ,1990

Transgenic Plants Andrew Hiatt,1993 Presents the latest techniques for the genetic engineering of plants focusing on the types of transgenic plants that have the potential for influencing agricultural practices as well as the production of valuable proteins

The Molecular Biology of the Positive Strand RNA Viruses D. J. Rowlands,M. A. Mayo,Brian W. J. Mahy,1987

Encyclopedia of Virology

Brian W. J. Mahy, M. H. V. Van Regenmortel, 2008 Covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects this new ed has been extensively revised and updated to reflect the 50 % increase in identified and accepted viruses since 2000 Includes information on avian flu SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism **Canadian Journal of Botany**, 1989 Plant Resistance to Viruses David Evered, Sara Harnett, 1987 Concern about the environmental consequences of the widespread use of pesticides has increased and evidence of pesticide resistant virus vectors have continued to emerge This volume presents a timely survey of the mechanisms of plant resistance and examines current developments in breeding for resistance with particular emphasis on advances in genetic engineering which allow for the incorporation of viral genetic material into plants Discusses the mechanisms of innate resistance in strains of tobacco tomato and cowpea various aspects of induced resistance including the characterization and roles of the pathogenesis related proteins antiviral substances and their comparison with interferon and cross protection between plant virus strains Also presents several papers which evaluate the status of genetic engineering as it relates to breeding resistant plants Among these are discussions of the potential use of plant viruses as gene vectors gene coding for viral coat protein satellite RNA and antisense RNA and practical issues such as the durability of resistant crop plants in the field *The Literature of Crop Science* Wallace C. Olsen, 1995 A reference based largely on the Core Agricultural Literature Project at the Albert R Mann Library Cornell U which over six years identified the most useful current literature in the field of agriculture for university level instruction and research An historical component has also been added **Biosciences**, 2008 *Report* Glasshouse Crops Research Institute (Littlehampton, England), 1985 **Encyclopedia of Molecular Biology: R-Z** Thomas E. Creighton, 1999

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