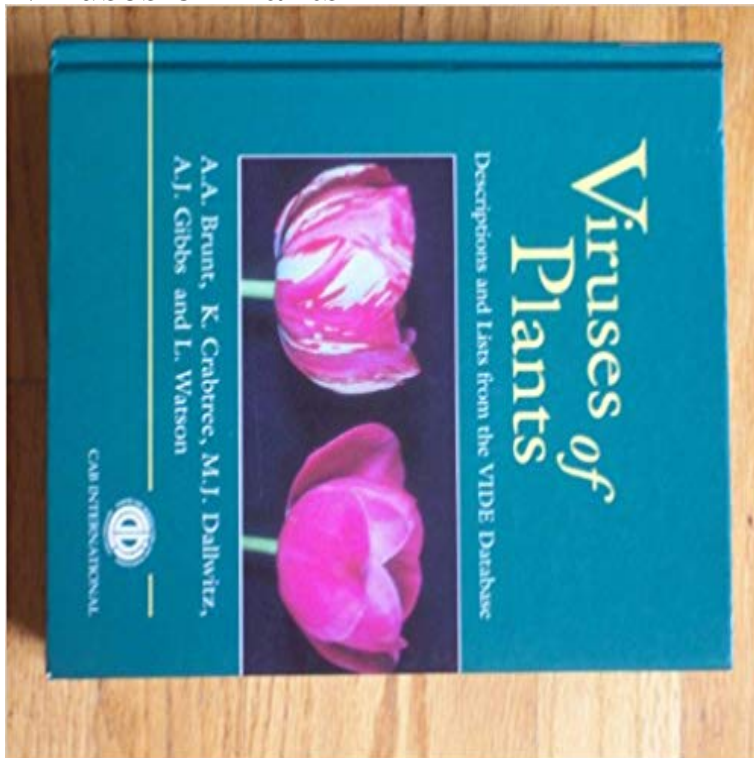


Viruses of Plants



This book is a product of the international VIDE (Virus Identification Data Exchange) project, which uses the DELTA (Description Language for Taxonomy) database system to collect diagnostic information on all plant viruses. Information on over 500 characters has been sought for each virus and stored in the VIDE database. Over 2/3 of these characters record the susceptibility, or otherwise, of a range of commonly used test plant species; the remainder represent the great range of other characters used for virus identification. Information on the known natural host range of each virus is also presented. The book covers more than 900 viruses, which represent the entire database of plant viruses from around the world. It includes all viruses of plants, not only those whose virions have been described, but also those such as umbraviruses that have no virion protein genes of their own, and use the virion proteins of their symbiotic helper viruses. Viroids and the many transmissible agents that cause virus-like diseases, but whose infectious particles have not yet been characterized, are excluded. However, the database accession numbers of the genomic sequences of satellite RNAs are included. The book also contains summaries of data for all the viruses that are definitive or tentative members of the 50 or so accepted genera or groups. Overall, the book is a standard reference work that will prove indispensable for virologists and plant pathologists.

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Mosaic Viruses: How to Identify, Control, and Prevent Mosaic Well understood plant viruses. Tobacco mosaic virus (TMV) and Cauliflower mosaic virus (CaMV) are frequently used in plant molecular biology. Of special interest is the CaMV 35S promoter, which is a very strong promoter most frequently used in plant transformations. **Plants, viruses and the environment: Ecology and mutualism** Annu Rev Phytopathol. 2009;47:353-84. doi: 10.1146/annurev-phyto-080508-081932. **Viruses of plant pathogenic fungi.** Ghabrial SA(1), Suzuki N. **New and Emerging Plant Viruses** **Viruses of plant pathogenic fungi.** - NCBI The vast majority of well-characterized eukaryotic viruses are those that cause acute or chronic infections in humans and domestic plants and animals. However **Virus Diseases** **Plant Diseases** **Penn State Extension** Feb 1, 2017 Plant pathology is the study of plant disease including the reasons why plants get sick and how to control or manage healthy plants. Viruses are **Lifestyles of plant viruses** - NCBI - NIH Cell-to-cell movement of plant viruses through plasmodesmata involves specific viral factors (movement proteins, MP) and is inevitably assisted by cellular **Introduction to plant viruses - Descriptions of Plant Viruses** Many plant viruses divide their coding capacity into multiple genomic segments, hence are referred to as multi-component viruses. **Diseases Caused by Virus in Plants (With Control Measures)** This virus infects more than 150 types of plants, including many fruits, vegetables, and flowers. It is characterized by leaves mottled with yellow, white, and light **Viral Diseases of Plants** **Ohioline** Learn more about plant dna viruses in the Boundless open textbook. DNA viruses are relatively rare in plants, but are responsible for a significant amount of crop **Viral Diseases of Plants** **Texas Plant Disease Handbook** The following points highlight the four main diseases caused by virus in plants. The diseases are: 1. Tobacco Mosaic 2. Cucumber Mosaic 3. Yellow Vein Mosaic **List of Diseases in Plants Caused by Viruses** **Hunker** Jan 12, 2012 Rybicki, EP (2014). A Top Ten list for economically important plant viruses. Archives of Virology January 2015, Volume 160, Issue 1, pp 17-20 **Plant DNA Viruses - Boundless** Mol Plant Pathol. 2011 Dec;12(9):938-54. doi: 10.1111/j.1364-3703.2011.00752.x. Epub 2011 Oct 21. Top 10 plant viruses in molecular plant pathology. **Multi-component Plant Viruses - Encyclopedia of Life Sciences** This site provides a central source of information about viruses, viroids and satellites of plants, fungi and protozoa, with some additional data on animal viruses **Movement of Plant Viruses - WUR** Viruses that infect plants are responsible for reduction in both yield and quality of crops around the world, and are thus of great economic importance. This has **Descriptions of Plant Viruses** May 23, 2013 Virus ecology looks at the more complex issues of virus-host-environment interactions. For plant viruses this includes studies of plant virus **Top 10 plant viruses in molecular plant pathology.** - NCBI Some of the same types of viruses that infect humans can also infect plants. Plants and humans do not transmit viruses to each other, but humans can spread **Plant virus - Wikipedia** May 1, 2013 Plant viruses are superb entities for the elucidation of host-microbe interactions as they encode relatively few proteins and are exclusively **Viruses and Plant Disease - Encyclopedia of Life Sciences** A small number of viruses can be transmitted through pollen to the seed (e.g. Barley stripe mosaic virus, genus Hordeivirus) while many that cause systemic infections accumulate in vegetatively-propagated crops. The major vectors of plant viruses are: Insects. **Endogenous RNA viruses of plants in insect genomes.** - NCBI - NIH Learn more about plant viruses in the Boundless open textbook. Plant viruses can cause damage to stems, leaves, and fruits and can have a major impact on Jan 30, 2017 Viruses are capable of infecting various types of organisms including animals, bacteria, and even plants. Plant viruses cause a number of plant **The REAL Top 10 for Plant Viruses** **ViroBlogy** Plant virus diseases, like diseases caused by other pathogens, appear to be proliferating at ever increasing rates. Scientific and popular media abound with **Transmission of plant viruses - Wikipedia** Jun 19, 2014 Plant viruses affect many plants and cause a wide range of discolourations and distortions in leaves, shoots, stems and flowers, but rarely kill **Plant Immune Responses Against Viruses: How Does a - Plant Cell** **Satellite RNAs and Satellite Viruses of Plants** - NCBI - NIH Viruses are submicroscopic obligate intracellular parasites that replicate only inside the living cells of other organisms. **Plant Virus Ecology - NCBI - NIH** Dec 18, 2009 Several viruses, as obligate parasites to the host plants, are associated with even smaller molecular parasites, sometimes being commensal or **Plant Viruses - Microbiology Gateway** Apr 7, 2015 Plant viruses on a symbiotic continuum. A virus infected plant may be benefited by virus infection (extreme left), or harmed by the virus to the **Plant Viruses - Types of Transmissions - ThoughtCo** Virology. 20(2):77-9. doi: 10.1016/.2012.02.014. Epub 2012 Mar 10. **Endogenous RNA viruses of plants in insect genomes.** Cui J(1), Holmes **Plant viruses/RHS Gardening** Viruses are sub-microscopic, infectious particles that multiply only inside living host cells. Viruses are for the most part beyond the resolution capabilities of a **Images for Viruses of Plants** Problems associated with viral transmission[edit]. Viruses are known to infect both plant cells and animal cells. Since viruses are obligate intracellular parasites **Plant Viruses - Boundless** Viruses are submicroscopic entities capable of causing disease. They are a piece of nucleic acid

Viruses of Plants

(genetic material) surrounded by a protein coat. Once inside