

The Plant Viruses: The Rod-Shaped Plant Viruses (The Viruses)



This volume of the series The Plant Viruses is devoted to viruses with rod-shaped particles belonging to the following four groups: the tobamoviruses (named after tobacco mosaic virus), the tobamoviruses (after tobacco rattle), the hordeiviruses (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; Murant, 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.

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Plant Viruses with Rod-Shaped Virions Jan 13, 2014 Key words: Movement protein, plant virus, pomovirus, tobamovirus, vascular .. (pomoviruses) have helical rigid rod-shaped virus particles. **Tobacco mosaic virus - Wikipedia** All of these viruses have single-stranded ribonucleic acid (RNA) genomes that, with one exception, are positive-sense.

Most plant viruses with rod-shaped particles are found in the six genera that form the Virgaviridae family with approximately half of all the definitive species in the Tobamovirus genus. [Development of immunochromatographic test systems for express Members of less than 20% of plant positive strand RNA viral genera have .. For rod-shaped fungally transmitted viruses, such as BNYVV (Tamada et al., 1996) **Virgaviridae: A new family of rod-shaped plant viruses. - CGSpace** This web site is mostly concerned with those viruses that infect plants but we also . about 12 nm in diameter and more flexuous than the rod-shaped particles. **Fungus-Transmitted and Similar Labile Rod-Shaped Viruses** genera of plant viruses with rod-shaped virions, together with the important members of each genus. Historical Perspective. Tobacco mosaic virus (TMV) has a **none** The new plant virus family Virgaviridae is described. The family is named because its members have rod-shaped virions (from the Latin virga = rod), and it **Translational control in positive strand RNA plant viruses - NCBI - NIH** This volume of the series The Plant Viruses is devoted to viruses with rod-shaped particles belonging to the following four groups: the toba moviruses. **The Plant Viruses: The Rod-Shaped Plant Viruses (The Viruses** This volume of the series The Plant Viruses is devoted to viruses with rod-shaped particles belonging to the following four groups: the toba moviruses (named **Virgaviridae: a new family of rod-shaped plant viruses - Springer Link** **Virgaviridae: a new family of rod-shaped plant viruses. - NCBI** This volume of the series The Plant Viruses is devoted to viruses with rod-shaped particles belonging to the following four groups: the tobamoviruses (named **Factors involved in the systemic transport of plant RNA viruses: the** The Rod-Shaped Plant Viruses Chapter. Pages 5-17. Tobacco Mosaic Virus The History of Tobacco Mosaic Virus and the Evolution of Molecular Biology. **FUNGAL TRANSMISSION OF PLANT VIRUSES Annual Review of** The new plant virus family Virgaviridae is described. The family is named because its members have rod-shaped virions (from the Latin virga = rod), and it **Fungal transmission of plant viruses. - NCBI** Jul 30, 2008 Flexible filamentous plant viruses include at least 19 recognized .. rod-shaped plant viruses, although there is little or no evidence that the **Plant Viruses with Rod-Shaped Virions - ResearchGate** Department of Plant Pathology, University of California, Davis, California 95616 Eighteen rod-shaped viruses belonging to the furo- and bymovirus groups and **none** Arch Virol. 2009;154(12):1967-72. doi: 10.1007/s00705-009-0506-6. Epub 2009 Oct 28. **Virgaviridae: a new family of rod-shaped plant viruses. Adams MJ(1) The Plant Viruses - The Rod-Shaped Plant Viruses M.H.V. Van** The Rod-Shaped Plant Viruses: 9781468470284 This listing is a new book, a title currently in-print which we order directly and immediately from the publisher. **The Plant Viruses: The Rod-Shaped Plant Viruses - Google Books Result** Sep 3, 2010 Numerous viruses infect plant, however, none of them so far is known as PMMoV, a rod-shaped non-envelop positive sense ssRNA virus **Introduction to plant viruses - Descriptions of Plant Viruses** Plant viruses are viruses that affect plants. Like all other viruses, plant viruses are obligate Over 50% of known plant viruses are rod-shaped (flexuous or rigid). The length of the particle is normally dependent on the genome but it is usually **Plant virus - Wikipedia** Oct 28, 2009 Abstract. The new plant virus family Virgaviridae is described. The family is named because its members have rod-shaped virions (from the **Virgaviridae: a new family of rod-shaped plant viruses - Springer Link** Viral diseases in plants pose a serious threat to the plant production. Plant viruses are . Rod shaped viruses (roughly elongated) are more common and vary. **Plant Viruses with Rod-shaped Virions. In: Encyclopedia of Life** **Plant Viruses with Rod-shaped Virions . In - Wiley Online Library** Detailed descriptions of all plant viruses can be found in the data base VIDE on the shape of the virus particle, it is distinguished between rod-shaped and **The Plant Viruses - Springer** Seven genera of plant viruses have rigid, rod-shaped particles. All the plant viruses that have rod-shaped virions have genomes composed of single-stranded ribonucleic acid (RNA) but, unusually among plant viruses, none has an aerial vector. **Phylogeny of capsid proteins of rod-shaped and filamentous RNA** Plant viruses that form rigid, rod-shaped particles are found in eight genera. All of these viruses have single-stranded ribonucleic acid (RNA) genomes that, with **Virgaviridae: A New Family of Rod-Shaped Plant Viruses - Journals** **Structure of Flexible Filamentous Plant Viruses - NCBI - NIH** The new plant virus family Virgaviridae is described. The family is named because its members have rod-shaped virions (from the Latin virga = rod), and it **Virgaviridae: A new family of rod-shaped plant viruses (PDF** The new plant virus family Virgaviridae is described. The family is named because its members have rod-shaped virions (from the Latin virga = rod), and it **Can Plant Virus Infect Human Being? - NCBI - NIH** of immunochromatographic test systems for express detection of plant viruses]. detection of five plant viruses varying in shape and size of virions: spherical **Botany online: Plant Viruses and Viroids** Phylogeny of capsid proteins of rod-shaped and filamentous RNA plant viruses: two families with distinct patterns of sequence and probably structure