

# Introduction To Plant Viruses Elsevier

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## Introduction To Plant Viruses Elsevier

### INTRODUCTION TO PLANT VIRUSES - Elsevier

Although plant viruses do not have an immediate impact on humans to the extent that human viruses do, the damage they do to food supplies has a significant indi-rect effect The study of plant viruses has led the overall understanding of viruses in many aspects II HISTORY Although many early written and pictorial records of diseases caused by

#### The evolution of plant virus transmission pathways

34 1 Introduction 35 Plant viruses naturally spread through three main transmission pathways: pollen, seed, 36 and vector Many plant viruses have vectors, providing the means for horizontal trans-37 mission from plant-to-plant (Gray and Banerjee 1999; Bragard et al 2013) Although 38 various organisms serve as plant viral vectors, insects represent the most important group

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#### Journal of Theoretical Biology

1 Introduction Plant viruses naturally spread through three main transmission pathways: pollen, seed, and vector Many plant viruses have vec-tors,

providing the means for horizontal transmission from plant-to-plant (Gray and Banerjee, 1999; Bragard et al, 2013) Although various organisms serve as plant viral vectors, insects represent

### **The evolution of parasitic and mutualistic plant-virus ...**

Plant viruses have evolved various modes of transmission resulting in genetic variation within and among virus species to interact with the genetic variation within and among plant species (Johansen et al, 1994, 1996; Domier et al, 2007, 2011) Some viruses are integrated into the plant genome and thus are persistent (Harper et al, 2002)

### **Virus-like particles as a highly efficient ... - Elsevier**

a component of animal or plant pathogens with the ability self-assemble (carrier) (Fig 1B) For example, an anti-malaria RTS,S, is based on a malaria antigen expressed as fusion on the surface of VLPs containing HBsAg [63] During two decades, coat proteins (CPs) of several plant viruses have successfully been engineered to produce target antigens from a

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Plant and Fungal Viruses Nobuhiro Suzuki, Okayama University Institute of Plant Science and Resources, Chuou 2-20-1, Kurashiki, 710-0046, Okayama, Japan RNA Viruses, Immune Responses, and Virus-Host Interaction Volker Thiel, Institute of Virology and Immunology, Länggassstrasse 122, CH-3012, Bern, Switzerland

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introduction The Journal of Virological Methods publishes high quality original research papers, systematic reviews and meta-analyses that advance our knowledge for analysis of human, animal, plant and other viruses

### **Horizontal and vertical transmission of viruses in the ...**

Like other plant and animal viruses, bee viruses use different survival strategies, including utilization of both horizontal and vertical routes, to transmit and maintain levels in a host population In this review, we explore the current knowledge about the honey bee viruses and transmission routes of bee viruses

### **Introduction to Virology I: Viral Structure and Function**

Some viruses may demonstrate persistent infection in immune compromised hosts These include the herpesviruses, human papillomavirus and rubella virus, among others 2 Some viruses are able to cause latent infection Latency is characterized by a quiescent or minimally transcriptionally active viral genome with periods of reactivation Latent

### **Insect transmission of plant viruses: a constraint on ...**

suggesting that viruses can adapt to new hosts fairly readily These patterns indicate that most viruses are able to take advantage of a relatively narrow set of vectors Indeed, Nault [29] suggests that transmission mode is a stable evolutionary trait for virus genera The transmission modes of insect-vectored plant viruses have been categorized

### **Sweet potato leaf curl virus: Efficiency of acquisition ...**

plant species (Greathead, 1986; Oliveira et al, 2001) and new hosts continue to be identified (Simmons et al, 2008) It vectors over 100 plant viruses (Jones, 2003) The wide polyphagous habit of *B. tabaci* increases the probability of it to acquire and disseminate plant viruses from weeds or other plants

### **Virus Research**

resembling members of the family Totiviridae that comprises fungal and protozoan viruses, but not plant viruses The 5'-proximal ORF codes for a 377 amino acid-long protein of unknown function, whereas the product of ORF2 contains typical motifs of an RNA-dependant RNA-polymerase and is likely expressed by a +1 ribosomal frame shift

### **INTRODUCTION TO BACTERIOLOGY AND BACTERIAL ...**

INTRODUCTION TO BACTERIOLOGY 1 Two main threads in the history of bacteriology: 1) the natural history of bacteria and 2) the contagious nature of infectious diseases, were united in the latter half of the 19th century During that period many of the bacteria that cause human disease were identified and characterized 2

### **CONTROL OF PLANT VIRUS DISEASES - researchgate.net**

on what plant viruses are, how their epidemics develop, why they diminish the productivity of cultivated plants, and what factors limit their development and the damage they cause

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### **A century of plant virus management in the Salinas Valley ...**

American public and for export The major aspects of plant virus control, including crop-free periods, breeding for resistance, elimination of inoculum sources, and vector control will continue to be vital to this expansion www.elsevier.com/locate/virusres \* Corresponding author Tel: ...

### **Soybean mosaic virus elicits Rsv1-mediated extreme ...**

2003) R-dependent elicitor function for a number of plant viral genes has been illustrated (Culver, 1997; Hull, 2002) Phenotypically, R-mediated recognition of plant viruses harboring complementary avr genes results in expression of extreme resistance (ER) or hypersensitive response (HR) (Hull, 2002), both of which are considered the

### **Analysis of grape polyamines from Grapevine leafroll ...**

Published by Elsevier Ltd 1 Introduction Plant polyamines are involved in several plant growth and development processes (Evans & Malmberg, 1989; Kusano, Yamaguchi, Berberich, & Takahashi, 2007), though more studies are required to discern relationships between plant pathogens and polyamines Some reports on the possible roles of polyamines