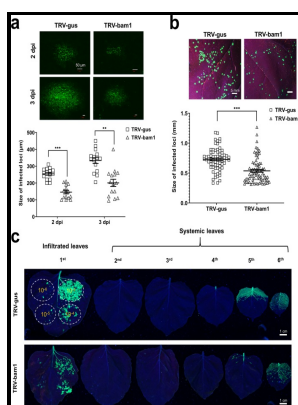


Studies on the cell-to-cell movement of tobacco mosaic virus.

University of East Anglia - STUDIES ON MULTIPLICATION, MOVEMENT AND DISTRIBUTION OF TOBACCO MOSAIC VIRUS AND OTHER TOBAMOVIRUSES WITHIN PETUNIA



Description: -

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Notes: Thesis (Ph.D), University of East Anglia, School of Biological Sciences, 1990.

This edition was published in 1990



Filesize: 34.710 MB

Tags: #Characterization #of #mutant #tobacco #mosaic #virus #coat #protein #that #interferes #with #virus #cell

Identification and study of tobacco mosaic virus movement function by complementation tests.

Infected plants were uniformly detected as infected using enzyme-linked immunosorbent assay ELISA methods. Publisher Information The Royal Society is a self-governing Fellowship of many of the world's most distinguished scientists drawn from all areas of science, engineering and medicine, and is the oldest scientific academy in continuous existence. Milestones: Progress has been achieved on all objectives, and work continues to: 1.

STUDIES ON MULTIPLICATION, MOVEMENT AND DISTRIBUTION OF TOBACCO MOSAIC VIRUS AND OTHER TOBAMOVIRUSES WITHIN PETUNIA

Another observation is that TMV-GFP movement is sectorial in the plant, and sometimes even within the shoot. Transfer of the movement protein gene between two tobamoviruses: influence on local lesion development.

Identification and Study of Tobacco Mosaic Virus Movement Function by Complementation Tests on JSTOR

The highlights of complementation data obtained by different experimental approaches are given, including i double infections with movement-deficient dependent and helper viruses; ii infections with recombinant viral genomes bearing a heterologous MP gene; iii complementation of a movement-deficient virus in transgenic plants expressing the MP of a helper virus; and iv co-bombardment of plant tissues with the cDNAs of a movement-dependent virus genome and the MP gene of a helper virus.

Characterization of mutant tobacco mosaic virus coat protein that interferes with virus cell

In the second group of studies, petunias are inoculated with TMV 30b-GFP TMV-GFP , a hybrid tobamovirus encoding the TMV replicase and MP ORFs, the CP from TMGMV and the green fluorescent protein GFP from the jellyfish *Aequoria victoriae*.

STUDIES ON MULTIPLICATION, MOVEMENT AND DISTRIBUTION OF TOBACCO MOSAIC VIRUS AND OTHER TOBAMOVIRUSES WITHIN PETUNIA

There are few sources of virus resistance in the available germplasm of many ornamental species, yet virus infection is a major constraint on both productivity and quality of many crops.

Tobacco Mosaic Virus: A Pioneer of Cell

We are examining further a cultivar in which only one of 30 inoculated plants developed an infection with a tobamovirus isolate. TMV-GFP can be introduced into the stem via simulated propagation experiments to detect the tissues that form the initial centers of infection. An understanding of viral identity, transmission, genome structures and functions, and mechanisms of viral pathogenicity will lead to the development of better control measures and increases in both productivity and quality of ornamental plants for industry and the consumer.

Identification and Study of Tobacco Mosaic Virus Movement Function by Complementation Tests on JSTOR

These results suggest that this subset of isolates are strains of TMV, consistent with the failure of these isolates to elicit the HR on N.

Identification and study of tobacco mosaic virus movement function by complementation tests.

A wide range of differences in susceptibility and tobamovirus movement was observed from testing petunia germplasm.

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