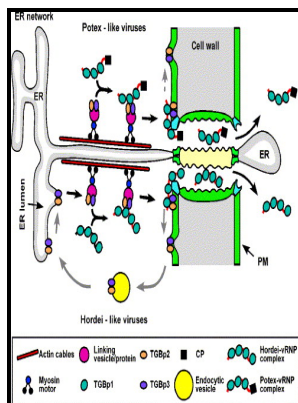


# Studies on the cell-to-cell movement of tobacco mosaic virus.

## University of East Anglia - Tobacco Mosaic Virus: A Pioneer of Cell



Description: -

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

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

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Tags: #Tobacco #Mosaic #Virus #(TMV): #Structure #and #Replication

### Tobacco Mosaic Virus: A Pioneer of Cell

TMV infection of transgenic BY-CP T42W protoplasts resulted in very low levels of MP accumulation, whereas on BY-CP protoplasts containing wt CP , infection produced higher levels of MP than in nontransgenic BY-2 cells.

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

Recently new virus problems have been observed associated with carmoviruses, potyviruses, tobamoviruses, tymoviruses, and some as yet unidentified viral or virus-like diseases. Annu Rev Plant Physiol Plant Mol Biol. Describe the major accomplishments over the life of the project, including their predicted or actual impact.

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

The 30-kilodalton gene product of tobacco mosaic virus potentiates virus movement. Accomplishments Isolation and host responses of petunia-infecting tobamoviruses. TMV-GFP infection was visually detected within 2-4 days post-inoculation.

### Tobacco Mosaic Virus (TMV): Structure and Replication

Life-Cycle Replication of Tobacco Mosaic Virus TMV : Plant viruses like TMV penetrate and enter the host cells in toto and their replication completes within such infected host cells Fig. It remains to be determined whether the remainder of the MP ORF will share a similar level of divergence with TMV U1.

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

The diameter of infection sites in mm was measured at 4 dpi and averaged. Additional symptomatic and asymptomatic petunia cultivars from the variety trials are being screened for presence of tobamoviruses.

## **Tobacco Mosaic Virus: A Pioneer of Cell**

The resulting clone pMON9-CPU1 harbors an expression cassette with the CP between the 35S promoter and nos-terminator. However, it is not clear how CP regulates the accumulation or function of MP. Transactions are published monthly and now include papers presented at Discussion Meetings as well as specific themes and reviews.

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

This transport process is mediated by a specialized viral movement protein, P30.

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

During propagation of virus isolates in petunia, it was determined that some cultivars appeared to be resistant to infection by multiple isolates or to a select set of individual tobamovirus species. The research in this accomplishment contributes to ARS National Program 303, Component 1, Problem Statement 1B, and Component 2, Problem Statement 2A, and ARS Strategic Plan Performance Measure 3.

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