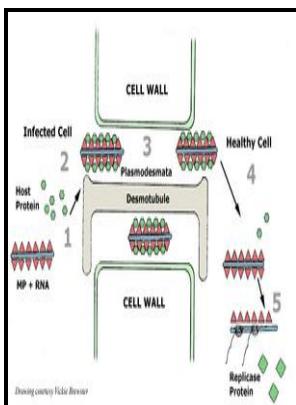


Studies on the cell-to-cell movement of tobacco mosaic virus.

University of East Anglia - Cell



Description: -

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

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It was previously shown that TMV-CP T42W did not cause systemic infection. This research in this accomplishment contributes to ARS National Program 303, Components I and IV, and ARS Strategic Plan Performance Measure 3. In related work at Beltsville, a portion of the genome of a tobamovirus from petunia associated with flower break symptoms was cloned and sequenced.

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

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

To examine further the effect of CP T42W on synthesis and accumulation of MP, the CP gene in the clone TMV-MP:GFP-CP was mutated. Infected plants and protoplasts were examined by fluorescence and laser scanning confocal microscopy, as described below. Identification of the virus and vector is important for development of practical disease prevention or control methods, and to minimize pesticide usage.

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