

## Accepted Manuscript

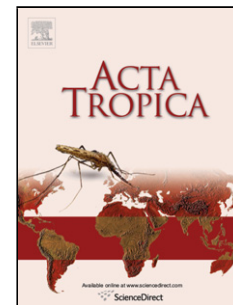
Title: Multiple dengue virus types harboured by individual mosquitoes

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## Multiple dengue virus types harboured by individual mosquitoes

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### Highlights

- Multiple DENV types are present in individual mosquitoes from Rajasthan, India
- The mosquitoes could be non human source of hetero DENV types in endemic settings.
- Paper sensitizes further studies on multiple DENV types in mosquitoes and DHF.

### Abstract

The existing knowledge on pathogenesis and aetiology of DHF establishes that Dengue Hemorrhagic Fever (DHF) and Dengue Shock Syndrome (DSS) are caused by two subsequent infections of two different serotypes of dengue affecting a common human population with a time gap. Present studies have been undertaken on 212 laboratory reared infected individual mosquitoes from larvae collected from 31 dengue endemic towns of Rajasthan, India. Type specific DEN viruses were detected from individual mosquitoes employing RT-PCR. In 78.7% of 212 infected individual mosquitoes studied, vertically transmitted multiple DENV types were observed. We report for the first time that single mosquitoes contain multiple dengue virus types.

**Keywords: Multiple dengue types; Etiology; DHF**

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