

## RESEARCH NOTE

# ISOLATION OF TEMBUSU VIRUS FROM *CULEX QUINQUEFASCIATUS* IN KANCHANABURI PROVINCE, THAILAND

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**Abstract.** Tembusu virus (TMUV) is a positive-sense, single-stranded RNA virus belonging to Ntaya virus serogroup of Flaviviridae family. Of 1,478 female *Culex* mosquitoes collected from Mueang Kanchanaburi, Thailand using BG Sentinel Trap, 91.5% were *Cx. quinquefasciatus*. One pool from seventy pools of mosquitoes was TMUV-positive by reverse transcriptase-PCR and virus isolation. This is the first report of an isolation of TMUV from *Cx. quinquefasciatus* collected near a chicken farm, providing evidence for TMUV transmission by this *Culex* species in a natural habitat. This has implications for possible infection in humans.

**Keywords:** *Culex quinquefasciatus*, chicken farm, Tembusu virus, Thailand

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