Article

Title: Fisetin Enhances Dengue Virus Type-2 (NGC Strain) Infectivity and Replication in Vero Cells

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Abstract: This study investigated the effects of 3,3,7,7-tetramethoxyflavone (fisetin) on DENV-2 infectivity in Vero cells. Virus adsorption and attachment and intracellular virus replication were investigated using a tissue culture assay (TCA) and quantitative RT-PCR, respectively. Addition of fisetin (10 μg/mL) significantly increased the number of DENV-2 infected cells by 33.6%, 21.2%, and 45.0%, respectively, at 48, 72, and 120 hours after infection. The results indicate that fisetin might enhance dengue virus replication by acting on the viral life cycle. These results suggest that fisetin might be a potential anti-dengue therapy.