

CHAPTER VII

CONCLUSIONS

All flavivirus in this study, CxFV, DENV-2 and DENV-4 were capable to activate microglia in comparable to JEV. All induced intracellular ROS production in correspondance with decreased cell viability. The different responses in iNOS expression and activation of caspase-3 suggested the distinctive signaling pathway trigger by those viruses. The present study is the first report concerning the effects of CxFV, DENV-2 and 4 on microglia activity. These results provided background information for further study of flavivirus induced neuroinflammation. Finally, understanding of virus induced ROS production and subsequently their effects on signaling pathways may develop a strategic treatment for virus infection.