

Identify Inhibitors of Dengue Virus Infection

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I chose to review this article because the title sounded interesting. I knew Flaviviruses were positive-sense RNA viruses. I wondered how dengue virus, a Flavivirus, could be sensitive to inhibition of the thymidine synthesis pathway when thymidine is not directly incorporated into RNA. I thought it would be interesting to read how the thymidine synthesis pathway could be targeted to inhibit dengue virus replication.

The dengue virus (DENV) is a positive-sense single stranded [RNA](#) virus with a 5' m7G cap, 5' untranslated region (UTR), 3' UTR and no poly (A) tail. Once DENV has entered the cell through receptor-mediated endocytosis, translation can be coupled to replication. A single polyprotein is translated by host ribosome which recognizes internal ribosomal entry sites (IRES) on the positive-sense RNA. The polyprotein is then cleaved into seven non-structural proteins and three structural proteins by viral proteases. One of the non-structural proteins synthesized is RNA-dependent RNA polymerase which is used for viral replication. RNA-dependent RNA polymerase uses the positive-sense RNA strand as a template to synthesize a negative-sense RNA strand intermediate. Then RNA-dependent RNA polymerase uses this negative-sense RNA strand as a template to synthesize positive-sense RNA. The positive-sense RNA strand is packaged into the virion and released from the cell (3).

Dengue fever is caused by infection of one the four different serotypes of DENV. The four different serotypes are DENV-1, DENV-2, DENV-3, and DENV-4. While dengue fever is usually self limiting, secondary infection of a different serotype can cause dengue hemorrhagic fever (DHF) which is fatal. Transmission of dengue virus occurs through two mosquito vectors...

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...iviral immunity. J. Exp. Med. 205:1929–1938.

5. Shakes, D.C., Miller D.M. 3rd, Nonet M.L. 2012. Immunofluorescence microscopy. Methods Cell Biol.107:35-66.

6. Shum, D., Smith, J.L., Hirsch, A.J., Bhinder, B., Radu, C., Stein, D.A., Nelson, J.A., Fruh, K., and Djaballah, H. 2010. High-Content Assay to Identify Inhibitors of Dengue Virus Infection. Assay Drug Dev Technol. 8(5):553-570.

7. Wang Q.Y., Bushell S, Qing M., Xu H.Y., Bonavia A., Nunes S., Zhou J., Poh M.K., Florez deSessions P., Niyomrattanakit P., Dong H., Hoffmaster K., Goh A., Nilar S., Schul W., Jones S., Kramer L., Compton T., Shi P.Y. 2011. Inhibition of dengue virus through suppression of host pyrimidine biosynthesis. J. Virol. 85:6548–6556.

8. Xie X., Wang Q.Y., Xu H.Y., Qing M., Kramer L., Yuan Z., Shi P.Y. 2011. Inhibition of dengue virus by targeting viral NS4B protein. J. Virol.85:11183–11195

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