DENGUE VIRUS AND THE IMMUNOLOGICAL SYSTEM: A MATHEMATICAL APPROACH

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Abstract

Dengue disease is caused by a infected mosquito bite and is manifested by different clinical ways like undifferentiated febrile illness, dengue fever, dengue hemorrhagic fever and dengue shock syndrome. We develop a mathematical model of the first meet of dengue virus and the immunological system considering the most common target cells: dendritic cells, monocytes, macrophages and the humoral and cellular immunological response.

Referências

[7] Kou Z, Quinn M, Chen H; et al. Monocytes, but not T or B cells, are the principal target cells for dengue virus (DV) infection among human peripheral blood mononuclear cells Journal of Medical Virology, Volume 80, issue 1, p. 134 - 146. (2008)
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