Dengue Virus Structures

Abstract

Dengue virus (DENV) consists of four serotypes, Dengue 1, 2, 3 and 4, and is the causative agent for dengue fever and the more severe dengue hemorrhagic fever (DHF). Although DENV infects approximately 50-100 million people each year, no effective vaccine has been licensed for human use. To facilitate development of vaccine and therapeutics, it is essential to understand structural changes of virus during its infection cycle and also the mechanism of inhibition by antiviral agents. Here I will present structures of dengue virus at different stages of infection and also its complexes with antiviral agents, such as antibodies and peptides.

Selected Publications:


