Special Issue

Molecular Approaches for Understanding Dengue Disease

Message from the Guest Editors

Dengue disease is the most prevalent mosquito-borne viral infection in humans. Dengue incidence has dramatically increased in the last two decades, and dengue burden represents a real threat to affected tropical and subtropical countries worldwide. Mosquito-borne dengue virus (DENV) is an enveloped single-stranded positive RNA virus belonging to the *Flavivirus* genus of the *Flaviviridae* family. The four different serotypes of DENV, DENV-1 to DENV-4, can cause a wide spectrum of clinical illnesses ranging from self-limited dengue fever to severe dengue (dengue hemorrhagic fever and dengue shock syndrome) with fatal consequences. No approved antiviral therapeutic agents are available to treat patients with severe dengue disease. An efficient vaccine is expected to afford a long-term protective immunity against the four DENV serotypes. The mechanisms underlying dengue disease are complex, and understanding the pathogenic basis of severe dengue is challenging. In this Special Issue, the contributors are warmly invited to publish their works focusing on molecular mechanisms associated with dengue disease.

Guest Editors

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