



Flavivirus Infections and Host-Pathogen Interactions

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Message from the Guest Editor

Flaviviruses are vector-borne RNA viruses that can infect a broad range of hosts. There are currently no specific antivirals available for any flavivirus infection.

First-hand information on the molecular changes in the host induced by the virus to promote its replication, and the pathways triggered in the host that result in immunity and/or clearance of the viral infection are still lacking. Having insights into the host responses to viruses would help to define targets for therapeutic intervention and to identify existing FDA-approved drugs or investigational drugs for drug-repurposing for virus infection. One major advantage of the drug repurposing approach is that these drugs can be fast-tracked through clinical Phase II and this method significantly reduces the time and cost of drug discovery for viral diseases.

In this Special Issue, we are interested in cross-talk between various hosts and flaviviruses—specifically, how host cells interact and the molecular mechanisms underlying the pathophysiologic process of Flavivirus infection. We are also interested in the application of this knowledge for host-directed antiviral/therapeutics for flaviviruses.

