

Special Issue

Arbovirus: Infection, Immunity and Antiviral Research

Message from the Guest Editors

Arboviruses from the genera flavivirus and alphavirus are the most important human arboviruses among the major causes of emerging infectious diseases. This Special Issue will delve into the host environment adaptation and modulation, immunity response and antiviral strategy revolving around the arbovirus. Arbovirus has evolved complex mechanisms to antagonize innate immunity response, the dissection of the underlying mechanisms could pave the way for the development of a new antiviral-regimen that can undo the suppression on innate immunity. The cross activity of arbovirus of the flaviviridae family (genus Flavivirus) antigen complicates the design and assessment of arbovirus vaccine, new insights in antibody-dependent enhancement (ADE) phenomenon is crucial for the arbovirus vaccine development. With the rapid development of artificial intelligence-guided design and screening of anti-viral compounds, the field will witness the advent of a variety of novel small anti-arbovirus compounds. The integration of these forefronts in arbovirus has the potential to move the arbovirus research to the next chapter.

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