# Special Issue

# Molecular Research on Arboviruses Infection

### Message from the Guest Editor

The molecular pathogenesis of arbovirus infections describes our current understanding of the pathogenesis of selected arboviruses, such as dengue, Zika, West Nile, Rift Valley fever, chikungunya, and many others. Molecular pathogenesis may focus on, but is not restricted to, for instance tropism, host–pathogen interactions at a cellular and molecular level, study of virulence factors, mico-evolution, host resistance to pathogens, and factors driving the emergence of new viruses. Such as, dengue, although primary infection confers durable, if not life-long protection against re-infection by a homologous dengue virus serotype, secondary infection by a heterologous serotype is considered the most important risk factor for severe disease. However, the molecular mechanisms of, for instance, antibody-dependent enhancement, antibody glycosylation, original antigenic sin, mitochondrial dysfunction, pyroptosis, endothelium cell permeability, and so on, which have been associated with severe diseases remaining poorly understood. This Issue aims to bring this knowledge together and to identify the gaps in our understanding of the molecular mechanisms of evolution and pathogenesis.


### Guest Editor

Dr. Byron Martina

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### Deadline for manuscript submissions

closed (28 February 2021)


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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

### Editor-in-Chief

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