Special Issue

Mosquito-Borne Virus Ecology

Message from the Guest Editors

Human and animal diseases caused by mosquito-borne viruses (moboviruses) are of growing importance in many countries. Shifts in climate regimes can have a direct impact on the distribution of a species. Therefore, climatic conditions also have a significant impact on the local or regional emergence and frequency of moboviruses, which are significantly influenced by the availability of potential host species. Changes in the distribution of vectors, reservoirs or amplification hosts directly influence the risk of moboviruses' emergence, e.g. by bringing together humans and animals in close contact with viruses. Thus, changes in climate, as well as other environmental changes (e.g. land-use), are likely to shift the occurrences and transmission risk of moboviruses. This is why emerging or re-emerging moboviruses have reached the forefront of medical research at the global scale, with prominent outbreaks in recent years (e.g. Chikungunya virus or Zika virus). Thus, the fundamental understanding of the mosquito vector and mobovirus ecology is the sine qua non to develop and implement sustainable vector and mobovirus control programs.

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Message from the Editor-in-Chief

Viruses (ISSN 1999-4915) is an open access journal which provides an advanced forum for studies of viruses. It publishes reviews, regular research papers, communications, conference reports and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full experimental details must be provided so that the results can be reproduced. We also encourage the publication of timely reviews and commentaries on topics of interest to the virology community and feature highlights from the virology literature in the 'News and Views' section.

Electronic files or software regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material.

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