

Special Issue

Mosquito-Borne Virus Ecology

Message from the Guest Editors

Human and animal diseases caused by mosquito-borne viruses (mboviruses) 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 mboviruses, 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 mboviruses' 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 mboviruses. This is why emerging or re-emerging mboviruses 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 mbovirus ecology is the sine qua non to develop and implement sustainable vector and mbovirus control programs.

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