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Mosquito-Borne Virus Ecology 2.0

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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

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