Special Issue

Global Perspectives on the Role of Invasive Mosquito Species and Emerging Vector-Borne Diseases

Message from the Guest Editors

The global burden of mosquito-borne diseases poses a significant threat to public and animal health. Increased local transmissions are driven by the spread of invasive mosquito species (IMS) into previously unaffected regions, facilitated by global travel, trade, and climate change. IMS impact ecosystems, public health, and economies as they outcompete native mosquitoes, harm biodiversity, and disrupt predator-prey relationships. The homogenization of communities due to IMS can lead to species extinction. Despite advances in control strategies, globalization and climate change present new challenges, underscoring the need for further research and adaptable approaches. Strengthening surveillance and investigating factors affecting vector abundance are crucial for predicting disease outbreaks and developing effective responses. This Special Issue aims to address these concerns through comprehensive studies on IMS and mosquitoborne diseases. We invite contributions on topics including IMS biology, monitoring, climate change effects, emerging diseases, and innovative control methods, among others.

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