



New Insight into Vector Borne Diseases

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Message from the Guest Editors

Mosquitoes and other blood-feeding arthropods are vectors that impose severe public health risk diseases of bacterial, parasitic, and viral nature. Approximately 80% of the world's human population is at risk of one or more vector-borne diseases, with over 300 million cases and about 1 million human deaths annually. Vector-borne diseases still account for more than 17% of infectious diseases, despite substantial developments in the study of vector biology. Specifically, insect-borne viruses constantly pose a risk of pandemic, and the lack of vaccines and other effective prevention for most vector-borne diseases places pressure to have more integrated approaches that target the disease transmission system rather than the pathogens alone.

The focus of this Special Issue of Biomolecules is on the most recent advances related to the contribution of the vector to the process of pathogen transmission and host immunity, as well as the current status of arthropod vectors and vector-borne diseases, with special emphasis on alternative approaches to controlling vectors of disease, host-pathogen-symbiont interactions, functional genomics, and vector competence.





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