



Ectoparasite Biogenic Components in the Modulation of Vector-host-pathogen Interactions

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Message from the Guest Editor

Vector-borne diseases (TBDs) represent a growing burden for human and animal health worldwide. Vector competence is a component of vectorial capacity and depends on genetic determinants affecting the ability of a vector to transmit a pathogen. These determinants affect traits such as vector–host–pathogen interactions and susceptibility to pathogen infection. Therefore, the elucidation of the mechanisms involved in vector–pathogen and vector–host interactions that affect vector competence is essential for the identification of molecular drivers for vector-borne diseases. The identification using latest omics technologies of ectoparasite biogenic components and their role in the modulation of vector–host–pathogen molecular interactions that promote survival, spread, and pathogen transmission provides the opportunity to disrupt these interactions and leads to a reduction in the prevalence of vector-borne diseases.





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