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Role of Vector Microbiota on Vector Physiology and Vector-Borne Pathogens Interactions

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Message from the Guest Editor

Dear Colleagues,

Interest and knowledge in the role of vector microbiota on vector physiology and vector-borne pathogen interaction has increased in recent years. However, mechanisms underlying the multipartite interaction between vectors, microbiota, pathogens and vertebrate hosts remain poorly characterized.

In addition to pathogens, arthropod vectors can harbor commensal and symbiotic bacteria that provide nutritional factors, modulate the immune system of the vector and facilitate or compete with vector-borne pathogen colonization and/or transmission. Disturbance of the microbiota has demonstrated that the alteration of the microbial community abundance or composition have a significant impact on vector physiology and competence.

The aim of this Special Issue is to explore the research landscape on vector microbiota in order to find novel developments that may impact on vector physiology, vector-borne pathogens, and new strategies for controlling vector-borne diseases.

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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