

Special Issue

Microbiota of Insect Vectors

Message from the Guest Editors

Insects serve as vectors of many pathogens of public health importance, harboring a diversity of microbes from bacteria to fungi that are often found in close proximity to the pathogens that the vectors transmit. The microbiota associated with insects plays important roles in vector physiology, such as digestion, nutrition and innate immune modulation. Moreover, the intimate relationship that often exists between some of these microbes and their arthropod hosts supports investigations into their use in vector-borne disease control strategies, especially when a microbial symbiont is identified. The application of microbial symbionts to reduce vector competence is a novel approach to controlling the spread of arthropod-transmitted pathogens. Another approach, paratransgenesis, makes use of this information but goes a step further to effectively target the pathogen. This Special Issue encourages the submission of any paper dealing with the current advances in the understanding of vector–microbiota–pathogen tripartite interactions and also the future perspectives on the application of microorganisms as novel control strategies.

Guest Editors

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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