



Insect Microbiome and Immunity

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Message from the Guest Editors

Dear Colleagues,

Insects comprise the most diverse groups of organisms and live in diverse environments. As with all other organisms, insects encounter a wide range of microbes. While they rely on the innate immune system to combat these invading microbes to maintain homeostasis, some microbial communities of the insect microbiome can benefit the host and profoundly affect host physiology and overall fitness. Microbiotas have been proven to provide nutrients, promote host defense, and mediate host reproductive behavior. In recent decades, the emergence of high-throughput sequencing has enabled researchers to study host–microbe interactions from the whole microbiome level rather than single microbial species, greatly expanding our knowledge of insect biology.

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