



insects



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Gut Microbiota in Social Insects

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The gut microbial community has a profound impact on the host's physiology and behavior, while the host's genetical and ecological contexts also affect gut microbiota. This bidirectional association plays a crucial role in coevolution between hosts and gut microbes. Social insects, including ants, bees, wasps, and termites, are great models for studying the emergence and evolution of sociality in animal species, as well as for understanding how such social organization shapes their gut microbial communities. For this Special Issue, we invite the submission of papers that provide a broad perspective of the relationship between social insects and gut microbiota. In particular, we welcome papers focusing on the diversity or consistency of a gut microbial community among castes, colonies, and relevant behaviors to sociality. We also welcome sophisticated studies using model species like honey bees and termites, but would also appreciate short reports on gut microbiota in any endemic species or local tribe.



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Special Issue