

## Special Issue

# Host Specificity of Parasitoid Wasps and Its Applications in Biological Control

### Message from the Guest Editor

Biological control (biocontrol) is a safe, sustainable approach that harnesses natural enemies such as predators, parasitic insects, or pathogens to manage pests in agroecosystems. Parasitoid wasps, a diverse group of hymenopteran insects, are well-established biological control agents for arthropod pests in agricultural and forest ecosystems. This Special Issue aims to explore recent progress in the application of parasitoid wasps in biocontrol. Topics include the species diversity of parasitoid wasps, the identification of dominant parasitoid wasps associated with insect pests, and biocontrol practices such as classical, augmentative, and conservation biological control in various agroecosystems. Additionally, we will delve into different mass-rearing and release technologies, as well as the commercialization of several parasitoid wasp species. Furthermore, we will examine other research areas with potential applications in biocontrol. Finally, we will discuss future research directions and applied perspectives, emphasizing how advancements in biocontrol technologies in agriculture have global research implications.

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### Guest Editor

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### Deadline for manuscript submissions

closed (15 December 2025)



## Insects

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## About the Journal

### Message from the Editor-in-Chief

Arthropods are a diverse and abundant group of animals that are important to a variety of research dictates. For example, hexapods act as bio-indicators of ecosystem function and pest status and serve as model systems for questions concerning physiology, embryology, genetics, and social interaction. The editorial board and staff at *Insects* is committed to providing contributors an open access forum to showcase objective and innovative research as well as succinct review articles. Our journal is dedicated to providing timely and thorough review of qualified submissions and we welcome you to submit a contribution.

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### Editor-in-Chief

Prof. Dr. Brian T. Forschler

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