Special Issue

Immunological Insights for Insect Mass Rearing, Biocontrol, and Monitoring of Environmental Changes

Message from the Guest Editors

Over the past century, research on insect immunity has enabled us to understand the fundamental mechanisms of cellular and humoral responses. However, ongoing climate change, human population growth, and the spread of invasive species all contribute to the growing challenge of meeting food demand-challenges that can be mitigated through a deeper understanding of immune system functions. These issues are closely linked to the increased use of insecticides, which has resulted in environmental pollution, biodiversity loss, and significant impacts on human health. We believe that studies on insect immunity can make a meaningful contribution to addressing these global issues. Special Issue welcomes original research articles, reviews, quantitative meta-analyses, and perspective articles focusing on various aspects of insect immune system functioning, both in species that cause economic losses and those used in mass rearing. We also encourage submissions of articles concerning the use of insect-based products related to their immunity, such as antimicrobial peptides, and studies examining the effects of environmental factors and pollutants on insect immune mechanisms.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).