

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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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed,
PMC, PubAg, and other databases.

Journal Rank:

JCR - Q1 (Entomology) / CiteScore - Q1 (Insect Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 18.1 days after
submission; acceptance to publication is undertaken in 2.9
days (median values for papers published in this journal in
the first half of 2025).