

Special Issue

Toxicology and Molecular Physiology of Social Insects

Message from the Guest Editor

The toxicology and molecular physiology of insects comprise an interdisciplinary subject involving entomology, biochemistry, molecular biology, toxicology and other related fields. Additionally, molecular toxicology advances our insight into the toxicological and toxicokinetic properties of various bioactive compounds. This interdisciplinary approach is of great importance to obtaining a better understanding of the ecology and behavior of insects, elucidating insecticide toxicology and resistance mechanisms. Subsequently, this will help researchers to design more effective insecticides and biopesticides to manage targeted pests that affect agricultural production and public health, while minimizing environmental pollution and its impact on non-target organisms, as well as helping in developing integrated pest management strategies for sustainable land use. Therefore, this Special Issue seeks submissions of original research and review articles dealing with mechanistic understandings of the toxicology and molecular physiology of social insects including ants, bees, termites, and red fire ants, among others.

Guest Editor

Prof. Dr. Zhixiang Zhang

National Key Laboratory of Green Pesticide, South China Agricultural University, Guangzhou 510642, China

Deadline for manuscript submissions

closed (1 September 2024)



Insects

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/171764

Insects
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
insects@mdpi.com

[mdpi.com/journal/
insects](https://mdpi.com/journal/insects)





Insects

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed



[mdpi.com/journal/
insects](https://mdpi.com/journal/insects)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Brian T. Forschler
Department of Entomology, University of Georgia, 413 Biological
Sciences Building, Athens, GA 30602-2603, USA

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).