

Special Issue

Functional and Evolutionary Stress Responses in Insect Pests

Message from the Guest Editor

Insects live in variable and often stressful environments. The human activity which led to global warming, pollution by heavy metals, organic pollutants, and extensive application of insecticides, enhanced insect exposure to stressors. At an individual level, successful insect survival and reproduction are determined by complex adaptive physiological responses that mitigate the harmful effects of a stressor. At the population level, depending on available genetic variation and plasticity costs, the evolution of stress-resistant phenotypes could be promoted. Short-term and long-term (transgenerational) exposure to stressors have implications for the distribution, population dynamics and management efficacy of agricultural, forest and medically important insect pests. This Special Issue aims to report recent findings on molecular and physiological mechanisms underlying the tolerance and evolution of adaptations to all forms of natural and anthropogenic stressors in insect pests. Research topics related to the fitness consequences of multiple stressors and mechanisms of cross-tolerance are encouraged.

Guest Editor

Dr. Jelica M. Lazarević

Institute for Biological Research "Siniša Stanković", National Institute of Republic of Serbia, University of Belgrade, Bulevar Despota Stefana 142, 11060 Belgrade, Serbia

Deadline for manuscript submissions

closed (30 November 2023)



Insects

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/169589

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).