

Special Issue

Advances in Molecular and Physiological Responses of Insects to Biotic, Abiotic and Xenobiotic Constraints

Message from the Guest Editors

Insects are vital arthropods, impacting various agro-ecosystems. They show a wide range of adaptations to biotic (e.g., insects, plants and microorganisms), abiotic (e.g., temperature and humidity), and xenobiotic (e.g., chemicals and environmental pollutants) constraints that significantly impact various ecosystems. These adaptations allow insects to withstand these stresses. Although many studies have already been published on insect adaptations, their underlying mechanisms require further in-depth investigation. We believe that a detailed understanding of insect responses to biotic, abiotic and xenobiotic factors at both molecular and physiological levels, as well as their impact at the community level, is crucial in effectively managing economically important insect pests.

For this Special Issue, entitled "Advances in Molecular and Physiological Responses of Insects to Biotic, Abiotic and Xenobiotic Constraints", we welcome all types of submissions.

Prof. Dr. Yaobin Lü

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2026)



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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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