Special Issue

Recent Advances in the Understanding of Molecular Mechanisms of Resistance in Lepidopteran Pests: 2nd Edition

Message from the Guest Editors

Three years after the first edition, we are pleased to launch a new Special Issue named Recent Advances in the Understanding of Molecular Mechanisms of Resistance in Noctuid Pests. It is an opportunity to focus on the mechanisms of insecticide resistance developed by lepidopterans belonging to the family of Noctuidae (moth species), which are still among the most devastating crop pests on the planet. In addition to attacking a wide range of crops, such as maize and rice, it has developed resistance to many classes of insecticides and Bacillus thuringiensis (B.t.) pore-forming Cry toxins. Understanding how these insects become resistant to chemical insecticides and B.t. toxins is essential for sustainable control and appropriate resistance management tactics. We invite colleagues working on noctuid moth pests that have developed resistance to chemical insecticides and B.t. toxins to submit original papers, short communications, or reviews. Studies may focus on resistance mechanisms based on target-site mutations and/or metabolic detoxification. Genome comparison analyses between these species are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2025)

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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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