

Special Issue

Advances in the Effects of Insecticides on Pests

Message from the Guest Editors

The widespread use of insecticides has raised growing concerns about their long-term efficacy and ecological impact. Since insecticides are essential tools in pest control, the increasing development of resistant pest populations significantly reduces their effectiveness, often leading to overuse and environmental burden. Insecticides can cause a wide spectrum of sublethal effects on the behavior of pests, including feeding deterrence and changes in locomotion and mating success. Furthermore, there is increasing evidence of undesirable side-effects to beneficial organisms, such as pollinators and natural enemies, threatening the ecological balance and sustainable pest control. Understanding how insecticides affect target and non-target species is crucial for the development of safer and more effective pest management strategies. This Special Issue will focus on investigating the impacts of insecticides and highlighting the sublethal behavioral effects on pests, the resistance mechanisms, the mortality patterns, and the ecological consequences to beneficial arthropods (i.e., parasitoids, predators, pollinators).

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Editor-in-Chief

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