

Special Issue

Unintentional Effects of Pesticide Usage in Non-Target Species

Message from the Guest Editors

Insecticides are the predominant weapon to protect crops, killing or preventing insects from engaging in destructive behaviors. But once used to fight pests, insecticides may accidentally expose non-pest species, for instance, by contaminating soil and water. They may harm agriculture by contributing to the demise of key pollinator species. This Special Issue focuses on the unintentional effects of pesticide usage on non-pest species. It will fully embrace studies from multiple disciplines (e.g., agricultural sciences, toxicology, genetics and molecular biology, ecology, behavior, and evolution) that examine accidental pesticide impacts extending from the molecular to the behavioral level. Impacts may include, for instance, damage to organelles, cells, or tissues that are not primary targets and may include changes ranging from gene expression level to mating and sleeping patterns of non-target organisms. Studies may investigate pesticides' novel mechanisms of damage at label-recommended doses or sublethal doses that ultimately affect the biology of non-pest species. All types of articles, such as original research, opinions, and reviews, are welcome.

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Message from the Editor-in-Chief

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