

Special Issue

Neonicotinoid Insecticides Exposure, Mode of Action and Their Effects

Message from the Guest Editor

Neonicotinoid insecticides were first introduced in the mid-1990s. They are the main target of nicotinic acetylcholine receptors. Since the mid-2000s, they were suspected to have negative effects on non-target species, in particular the honeybee, *Apis mellifera* which is the most important managed pollinator. Recently, the European Union has banned three different neonicotinoid insecticides: clothianidin, imidacloprid and thiamethoxam, due to their adverse effects on useful insects and environment. However, for many pest control problems, neonicotinoid insecticides continue to be used. In this special issue, we aim to review the mode of action of neonicotinoid insecticides, from targets to non-target species. We will explore their mode of action from chemical analyses, toxicology, to molecular and cellular levels.

Guest Editor

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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