



Neonicotinoid Insecticides Exposure, Mode of Action and Their Effects

Guest Editor:

Prof. Dr. Steeve Hervé Thany

Laboratoire de Biologie des
Ligneux et des Grandes Cultures
(LBLGC), Université d'Orléans,
UPRES EA 1207-USC INRA, Rue
de Chartres, BP 6759, 45067
Orléans, France

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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.





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Message from the Editor-in-Chief

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