

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

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

Deadline for manuscript submissions

closed (20 April 2020)



International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 8.5
Indexed in PubMed



mdpi.com/si/30329

*International Journal of
Environmental Research and
Public Health*

Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijerph@mdpi.com

[mdpi.com/journal/
ijerph](https://mdpi.com/journal/ijerph)





International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 8.5
Indexed in PubMed



[mdpi.com/journal/
ijerph](https://mdpi.com/journal/ijerph)



About the Journal

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.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)