



The Neurotoxicity of Pesticides

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Deadline for manuscript
submissions:

closed (25 May 2023)

Message from the Guest Editor

Pesticides encompass a broad chemical group that primarily includes herbicides, fungicides, rodenticides, and insecticides. Although pesticides are designed with the intention of targeting a particular pest(s), the impact on the health of non-target species, such as humans, is apparent. For example, the insecticide class includes pyrethroids, carbamates, organochlorines, and the majorly employed organophosphorus pesticides (OPs). OPs target acetylcholinesterase within the central nervous system and neuromuscular junctions with thousands of annual intentional and non-intentional human poisonings. Hence, there is a growing body of scientific evidence that links acute or chronic pesticide exposure to neurotoxicity, more so when the brain is particularly vulnerable, for example, due to damage or incomplete development of the blood–brain barrier. In this Special Issue, we aim to bring together scientific articles and reviews that specifically focus upon the neurotoxicity of pesticides. This will include in vitro (cell-based) studies or those that utilize in vivo animal models, or ex vivo tissue as well as the epidemiology of exposures.





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Message from the Editor-in-Chief

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