Special Issue

Oxidative Stress and Neurotoxicity Induced by Chemicals

Message from the Guest Editors

Oxidative stress is a key pathological factor in the emergence of a variety of neurological disorders. However, more research is required to clarify the mechanisms underlying oxidative stress-induced neurotoxicity.

Certain chemicals and/or their metabolites can directly mediate the formation of free radicals that may induce damage to biomolecules and result in the development of irreversible neurodegeneration and even death both in humans and animals. Thus, it is crucial to comprehend the precise molecular pathways underlying chemical-induced oxidative damage and neurotoxicity to create efficient treatments and cutting-edge therapeutic approaches for major neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis.

To better understand and ameliorate chemical-induced neurotoxicity, this Special Issue aims to compile cutting-edge original research and review articles that reveal new mechanistic pathways, potential therapeutic approaches, and neuroprotective agents, particularly focusing on oxidative stress and neurotoxicity caused by chemicals, as well as their metabolites.

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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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