Special Issue

Organophosphate-Induced Neurotoxicity: Countermeasures, Mechanisms, and Physiology

Message from the Guest Editor

Organophosphates (OPs) are comprised of diverse compounds that include commonly used pesticides, fire retardants, industrial chemicals, and chemical weapon. Acute and chronic exposures to OPs can elicit immediate, intermediate, and chronic effects on the nervous system, including potentially contibuting to the onset of neurodegenerative disorders. A variety of biochemical, cellular, and physiological manifestations have been detected following OP exposures in preclinical models and in affected patients, These include calcium dyshomeostasis, oxidative stress, neuroinflammation, excitotoxicity. Consequently, the goals of this special issue is to assemble a body a literature to coordinate the rapidly growing and diversifying research surrounding OP-induced neuropathology and the concurrent mechanisms of neurotoxicity and to encourage the investigation of potential countermeasures in reproducible models of OP-induced dysfunction in the central and peripheral nervous system.

Guest Editor

Dr. Jeremy W. Chambers

Biomolecular Sciences Institute, Florida International University, Miami, FL 33199, USA

Deadline for manuscript submissions

closed (16 March 2024)

Toxics

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/160015

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

mdpi.com/journal/toxics

Toxics

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/toxics

MDPI

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.

Editor-in-Chief

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18, 08034 Barcelona, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).