

Special Issue

Neurotoxicity and Health Risks of Freshwater and Marine Toxin Exposure

Message from the Guest Editors

The global rise in harmful algal blooms (HABs) poses a growing threat to both human health and the environment, and predictions indicate that the occurrence, frequency and severity of HABs are expected to escalate with ongoing climate changes. They can cause poisoning outbreaks in aquatic organisms, including seafood, due to the release of toxic metabolites, such as cyanotoxins. This Special Issue is dedicated to gathering new research or review articles related to the neurotoxicity of freshwater and marine toxins, as well as health consequences of the toxins produced during bloom events. Going beyond their main toxicity pathways and also focusing on ecologically relevant model organisms. Moreover, contributions to the knowledge of neurotoxins emerged from OMICS (genomics, transcriptomics, proteomics and metabolomics) are also welcome in this Special Issue, as well as regulatory approaches worldwide and (eco)toxicity data. Another important aspect of interest is the validation of robust analytical methods for the determination of these toxins in waters and contaminated food.

Guest Editors

Dr. Remedios Guzmán-Guillén

Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, C/ Profesor García González 2, 41012 Seville, Spain

Dr. Leticia Díez-Quijada Jiménez

Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, 41012 Seville, Spain

Deadline for manuscript submissions

31 January 2026



Toxins

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/195982

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

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





Toxins

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

Editor-in-Chief

Prof. Dr. Jay Fox

Department of Microbiology, University of Virginia, Charlottesville, VA,
USA

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Toxicology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).