Special Issue

Cyanobacterial Toxins: Genotoxic and Cytotoxic Activity, Molecular Targets and Chemical Interactions

Message from the Guest Editors

Cyanobacteria are becoming a global environmental and human health problem as cyanobacterial blooms are increasing in frequency and magnitude worldwide, due to progressive eutrophication of water bodies and climate change. They produce a wide range of bioactive compounds including highly toxic cyanotoxins. Concern about their potential adverse effects, particularly after chronic exposure to low doses has been raised. The mechanisms behind the toxic effects of cyanotoxins differ according to their chemical structure and molecular targets. In order to set the appropriate safety measures for the protection of human and animal health, as well as the environment throughout, toxicological evaluation of the emerging cyanotoxins is urgently needed. The Special Issue will highlight research on cellular and molecular mechanisms behind the geno/toxic activity of cyanotoxins as pure compounds and complex mixtures. Moreover, papers describing novel predictive biomarkers of cyanotoxin geno/toxic effects identified by traditional toxicological approaches correlated to 'omics' data are welcome.

Guest Editors

Dr. Bojana Žegura

Department of Genetic Toxicology and Cancer Biology, National Institute of Biology, Večna pot 121, SI-1000 Ljubljana, Slovenia

Dr. Alja Štern

Department of Genetic Toxicology and Cancer Biology, National Institute of Biology, Večna pot 111, 1000 Ljubljana, Slovenia

Deadline for manuscript submissions

closed (1 September 2022)

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/53961

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

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

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).

MDPI