

Special Issue

Phycotoxins: Chemistry and Biochemistry

Message from the Guest Editor

Microalgae, including blue-green algae, i.e., cyanobacteria, synthesize a diverse array of secondary metabolites known to have neurotoxic, hepatotoxic, ichthyotoxic, hemolytic, and cytotoxic effects. The impacts of toxic algae are well documented with harmful algal blooms (HAB), and it is predicted that these events will increase in frequency and duration with climate change, threatening freshwater and marine ecosystems as well as human health. The number of congeners within various phycotoxin classes have continued to increase over the decades, and many bioactive phycochemicals have yet to be characterized, leaving tremendous room for discovery and broadening our knowledge of microalgal biochemistry. This Special Issue of *Toxins*, "Phycotoxins: Chemistry and Biochemistry", will focus on cutting-edge research in the areas of chemistry, biochemistry, and analytical methodologies for the detection and characterization of phycotoxins, e.g., polyketides, nonribosomal peptides, alkaloids, etc. Other topics will include the molecular biology and synthesis of phycotoxins, mechanism of action, and toxicology.

Guest Editor

Dr. Schonna R. Manning

Department of Biological Sciences, Director Water-Omics Facility,
Institute of Environment, an FIU Preeminent Program, Florida
International University, Biscayne Bay Campus, 3000 NE 151st Street,
MSB 250B/212, North Miami, FL 33181, USA

Deadline for manuscript submissions

closed (31 March 2022)



Toxins

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/52115

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).