# **Special Issue**

# Advanced Technology for Toxins Detection: Current Status and Future Perspectives

### Message from the Guest Editors

Low doses of toxins can cause poisoning or death of humans and animals. They are often doped in food processing, water and other environments and cause extremely hazardous events, which have become a worldwide public safety issue. The challenges of toxin detection are the high sensitivity, due to the lethality of low-dose toxins, and achieving a simple, quick operation, avoiding the toxins causing harm to nonprofessional operators. At present, many toxins lack specific antigens and antibodies, and there is no effective clinical detection method. This Special Issue aims to provide advanced technology for toxin detection, and address the current status and future perspectives of the detection of toxins. It includes advanced immunoassay and nucleic acid detection of toxin, on-site and clinical detection of toxin, new detection technology based on nano materials, etc. We hope that researchers will share their valuable research on toxin detection to open up unexplored areas.

### **Guest Editors**

Dr. Rui Xiao

Prof. Dr. Lei Guo

Prof. Dr. Shujun Zhen

### Deadline for manuscript submissions

closed (30 June 2023)



## **Toxins**

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed



### mdpi.com/si/127962

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



### **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).

