toxins

an Open Access Journal by MDPI

IMPACT FACTOR 4.0

Indexed in: PubMed

CITESCORE 8.2

Advanced Technology for Toxins Detection: Current Status and Future Perspectives

Guest Editors:

Dr. Rui Xiao
State Key Laboratory of Pathogen and Biosecurity, Academy of Military Medical Sciences, Beijing 100071, China

Prof. Dr. Lei Guo
State Key Laboratory of Toxicology and Medical Countermeasures, and Laboratory of Toxicant Analysis, Institute of Pharmacology and Toxicology, Beijing 100850, China

Prof. Dr. Shujun Zhen
College of Chemistry and Chemical Engineering, Southwest University, Chongqing 400715, China

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

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 non-professional 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.

toxins

IMPACT FACTOR 4.0 | Indexed in: PubMed | CITESCORE 8.2

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Jay Fox
Department of Microbiology,
University of Virginia,
Charlottesville, VA, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
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)

Contact Us

Toxins Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxins
toxins@mdpi.com
𝕏@Toxins_Mdpi