

Special Issue

Mycotoxins and Their Metabolites Biochemistry, Molecular Biology and Toxicology

Message from the Guest Editors

Mycotoxins comprise hundreds of toxic secondary metabolites that are produced by fungi and contaminate cereal grains, leading to serious effects on human and animal health. Exposure routes, bioavailability, and potential accumulation of mycotoxins in different species or organs can lead to different toxicities. Although the toxicity of most metabolites has been reduced compared with the original mycotoxins, they are still extremely harmful, suggesting that further investigations into toxicity are necessary. As more and more novel mycotoxins and metabolites are discovered, there is increasing interest in studying the toxicity and molecular mechanisms of these toxins and their major metabolites. This Special Issue of *Toxins* is focused on new insights and advances in cellular and molecular mechanisms of toxicity induced by mycotoxins and their major metabolites, especially from biochemistry and signaling pathways that underlie these toxic responses. While the focus is on molecular biology and toxicology of mycotoxins and metabolites, manuscripts addressing the occurrence, contamination, and risk assessment of novel mycotoxins and metabolites will also be considered.

Guest Editors

Prof. Dr. Kamil Kuca

Department of Chemistry, Faculty of Science, University of Hradec Králové, 50003 Hradec Králové, Czech Republic

Prof. Qinghua Wu

College of Life Science, Yangtze University, Jingzhou, China

Dr. Eugenie Nepovimova

Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech

Deadline for manuscript submissions

closed (31 December 2021)



Toxins

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.3
Indexed in PubMed



mdpi.com/si/43261

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 8.3
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 - Q2 (Toxicology) / CiteScore - Q1 (Toxicology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2026).