Special Issue

Development and Validation of Analytical Methods for the Determination of Mycotoxins

Message from the Guest Editor

Mycotoxins are compounds produced by the secondary metabolites of fungi. Most mycotoxins have harmful effects on human and animal health and represent a serious hazard that has been recognized by regulations on food and feed quality and safety worldwide. This Special Issue will encompass all aspects of new strategies for the efficient determination of mycotoxins, such as extraction from substrates, separation, and detection. Rapid testing and screening strategies to monitor mycotoxins will be considered, including sensors, biosensors, and methods exploiting new nanomaterials and nanotechnologies. Hyphenated techniques and high-throughput methods enabling the accurate and multiplexing determination of several classes of mycotoxins and the unveiling of new and unknown compounds will be also considered. Methods addressing the fate of mycotoxins and their transformation by plant, animal, and human metabolism will also be included, as well as new analytical approaches focused on mycotoxin detection in unconventional matrices. Special focus will be devoted to the validation aspects of emerging analytical methods.

Guest Editor

Prof. Dr. Laura Anfossi
Department of Chemistry, Universita degli Studi di Torino, 10124 Torino, Italy

Deadline for manuscript submissions

closed (31 May 2021)

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/51202

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