

## Special Issue

# Advanced Analytical Methodologies for the Determination of Mycotoxins in Food and Environmental Objects

### Message from the Guest Editors

Mycotoxins are secondary metabolites produced by several microscopic filamentous fungi, mainly *Alternaria*, *Aspergillus*, *Claviceps*, *Fusarium*, and *Penicillium* spp. Mycotoxin contamination even at low concentrations is an area of concern for producers, public health agencies, researchers, and consumers. Managing risks of food contaminants requires the application of accurate and sensitive analytical methodologies. Chromatographic techniques coupled with tandem and high-resolution mass spectrometry have been demonstrated as an especially powerful tool for the analysis of mycotoxins. In addition, recent progress of the development of rapid immunoaffinity-based detection techniques such as immunoassays and biosensors, as well as emerging technologies like quantitative NMR and hyperspectral imaging for the detection of mycotoxins in foods, should not be overlooked. Additional areas of interest for this Special Issue are the research studies dedicated to a new application of the wastewater analysis for assessing human exposure to mycotoxins by measuring specific biomarkers in raw wastewater.

### Guest Editors

Dr. Pantelis I. Natskoulis

Institute of Technology of Agricultural Products/Laboratory of Oenology, Hellenic Agricultural Organisation (HAO) - DEMETER, 14123 Likovrisi, Greece

Prof. Dr. Efstathios Z. Panagou

Laboratory of Microbiology and Biotechnology of Foods, Department of Food Science and Human Nutrition, School of Food and Nutritional Sciences, Agricultural University of Athens, Iera Odos 75, 118 55 Athens, Greece

### Deadline for manuscript submissions

closed (30 September 2022)



## Toxins

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/75159](https://mdpi.com/si/75159)

*Toxins*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[toxins@mdpi.com](mailto: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).