Analytical Novelties and Challenges for the Detection of Natural Toxins

Guest Editors:

Dr. Teresa D'Amore
IRCCS CROB, Centro di Riferimento Oncologico della Basilicata, 85028 Rionero in Vulture, Italy

Dr. Sofia Agriopoulou
Department of Food Science and Technology, School of Agricultural and Food, University of the Peloponnese, Campus Antikalamos Messinia, 24100 Kalamata, Greece

Deadline for manuscript submissions:
31 May 2025

Message from the Guest Editors

Natural toxins are very hazardous chemicals produced by a great variety of living organisms, including fungi, algae, bacteria, plants, insects, and animals. Exposure to these toxicants still represents a global concern for food security and consequently for animal and human health. Therefore, integrated and holistic approaches from production to consumption are necessary tools. The preventative analyses of raw materials and intermediate and finished products have a crucial role in minimizing toxin exposure worldwide. Analytical controls assume a key role in supporting decision-making and planning inputs and actions taken to protect consumers, animals, and the environment.

This Special Issue in *Toxins* invites submissions of research articles and reviews, aiming to compile research on analytical and technological novelties and challenges in the detection of natural toxins and their metabolites in food. Novel and improved methodologies by the means of high-content and high-throughput methods as well as optimized and in-depth standardized protocols for monitoring, risk assessment, surveillance, and international validation studies, are particularly welcome.

mdpi.com/si/206226

SpecialIssue

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