Special Issue

Evaluation and Prevention of Mycotoxin Contamination and Toxicological Effects

Message from the Guest Editors

Over the last decades, mycotoxins, toxic fungal secondary metabolites that frequently contaminate foods and feeds, have attracted great interest. Many analytical methods were developed from rapid screening test to mass spectrometry technology to setup multi-mycotoxin validated methods. New non-destructive strategies, also known as innovative non-thermal food processing technologies, are being explored as an alternative to conventional thermal treatments for mycotoxin decontamination. In addition, mycotoxins and their metabolites can interact with each other or with other chemicals and cause toxic effects. A more detailed approach of the role of mycotoxin-induced toxicity and the mechanisms protecting cells against the action of mycotoxins represents an attractive strategy for the risk assessment of mycotoxins. In vitro methods with the use of omics, microscale techniques, and bioimaging will serve to discover a broad spectrum of mechanisms attributable to the toxic effects of mycotoxins, masked mycotoxins, and their metabolites. All of these methods, provide a deeper insight into the risk factor of mycotoxins for human and animal health.

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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.

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