



## Evaluation and Prevention of Mycotoxin Contamination and Toxicological Effects

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### 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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