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The Metabolism and Cytotoxicity of Mycotoxins: A Threat or a Treat?

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Message from the Guest Editors

The worldwide contamination of foods and feeds with mycotoxins is a significant problem. Mycotoxins are secondary metabolites of molds that have adverse effects on humans, animals, and crops that result in illnesses and economic losses. In recent years, mycotoxin poisoning has occurred frequently and caused great losses, which makes it particularly important to conduct further research. Many researchers have explored metabolic research on mycotoxins focusing on four classes of toxins: aflatoxins, trichothecenes, zearalenone, and fumonisin.

Cytotoxicity is one of the most important adverse properties of mycotoxins, which may result in cell damage and/or cell death. Therefore, a better understanding of the cytotoxicity and metabolism of mycotoxins is necessary to avoid problems caused by mycotoxins, and to minimize their negative effects on agriculture and health. To date, mycotoxins have inspired the development a number of approved pharmaceuticals. Given this context, we welcome experts and scholars from around the world to share their research outcomes regarding bioactivities exhibited by mycotoxins.





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Message from the Editor-in-Chief

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