



Novel Techniques for Analysis and Determination of Mycotoxins in Food

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Deadline for manuscript
submissions:

10 January 2022

Message from the Guest Editor

Dear Colleagues,

Multiple mycotoxins may be present together in food and feeds. A highly sensitive system for the accurate analysis of mycotoxins are of paramount importance. Chromatographic techniques such as high-performance liquid chromatography coupled with various detectors like fluorescence, diode array, UV, liquid chromatography coupled with mass spectrometry, liquid chromatography-tandem mass spectrometry and liquid chromatography coupled with time of flight-mass spectrometry have been powerful tools for analyzing and detecting major mycotoxins. Recent progress of the development of rapid immunoaffinity-based detection techniques such as immunoassays and biosensors, as well as emerging technologies like proteomic and genomic methods, molecular techniques, electronic nose, aggregation-induced emission dye, quantitative NMR and hyperspectral imaging for the detection of mycotoxins in foods, are also welcoming. Novelties in extraction, purification and isolation, including some derivatization are interesting improvement strategies of analysis.

Keywords:

- mycotoxin in food
- detection
- determination
- food safety
- chromatographic techniques





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