



Analytical Methods for Mycotoxin Analysis

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Deadline for manuscript
submissions:

closed (30 November 2020)

Message from the Guest Editors

Dear Colleagues,

Mycotoxins are secondary metabolites produced by fungi, mainly *Aspergillus*, *Fusarium*, *Penicillium*, and *Alternaria*, which can contaminate food and feed with toxic effects for humans and animals.

Regulations have established maximum levels for mycotoxins in foodstuffs, including aflatoxins B1, B2, G1, G2, and M1, ochratoxin A, fumonisins B1 and B2, deoxynivalenol, zearalenone, HT-2 and T-2 toxins, patulin, citrinin, and ergot alkaloids. In addition to these “known and legislatively regulated” mycotoxins, there are other “emerging mycotoxins”.

Therefore, it is necessary to develop analytical methods for an accurate determination of mycotoxins. For monitoring, rapid, cheap, and easy-to-operate analytical methods are used; on the other hand, GC-MS, LC-MS/MS and HRMS, are required to develop multi-mycotoxin methods and to identify and quantify emerging, masked, and novel mycotoxins. Moreover, the numerous samples involved in mycotoxin determination requires the development of extraction and clean-up techniques.





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