Application of Novel Methods for Mycotoxins Analysis

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Message from the Guest Editors

Crop contamination by mycotoxins is a global problem that poses significant economic burdens due to food/feed losses caused by reduced production rates; adverse effects on human and animal health and productivity; and trade losses associated with costs incurred by inspection, sampling, and analysis before and after shipments. Besides regulated mycotoxins, which are of major toxicological relevance, hundreds of mycotoxins and metabolites are listed as possibly (co)occurring contaminants in food/feed commodities.

Having available reliable, cost-effective, and eco-friendly analytical strategies for the characterization of the chemical structure, incidence, and toxicological effects of mycotoxins and relevant metabolites is essential to support food business operators as well as risk assessors in undertaking mycotoxin-related food safety issues. The varied nature and complexity of the food/feed matrix, different contamination levels, time and costs constraints, and matching available technologies with operator skills are some of the challenging aspects to deal with in method development.

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Special Issue

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