



Toxins

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Special Issue Reprint

Multi Methods for Detecting Natural Toxins

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Natural toxins are a diverse group of toxic compounds that are naturally produced by living organisms. Possessing various structures, natural toxins demonstrate different biological functions and toxicity. While these compounds are not harmful to the organisms producing them, via different exposure routes, they can reach human and animal bodies and can cause adverse health effects. Chemical diversity, occurrence at low levels, and presence in complex matrices make the reliable detection of natural toxins a persistent analytical challenge. Exposure to natural toxins needs to be studied and monitored; therefore, the availability of robust, sensitive and fit-for-purpose analytical methods for the detection, screening and/or quantification of various groups of natural toxins is crucial. Importantly, continuous advances in analytical methodologies are essential not only for accurate identification and quantification but also for exposure assessment, biomonitoring, and clinical diagnostics. This Special Issue (SI) is dedicated to the analysis of natural toxins via multi-analyte methods. The SI provides a collection of articles that emphasize the simultaneous detection of multiple toxins, showcase innovations in sample preparation, and expand the applicability fields of toxin detection across food, feed, and human biomonitoring.

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