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Development of Separative Techniques for the Detection of Natural Toxins

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Message from the Guest Editors

Separative techniques play a key role in the analysis of natural toxins and their metabolites, due to the complexity of the investigated matrices and the low amounts to detect. The separation of components is often performed prior to the instrumental detection. To date, the most used separative techniques are gas chromatography (GC), liquid chromatography (LC) and capillary electrophoresis (CE). Liquid chromatography combined to mass spectrometry (LC-MS) is the most used tool for the identification and quantification of these analytes, being the technique of choice when a multi-analyte determination is required. Recently, the use of high-resolution mass spectrometry (HRMS) has allowed the identification of novel toxins and advances in metabolomics studies.



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