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Application of Microextraction and Chromatography in Bioanalysis and Pharmaceutical Analysis

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Message from the Guest Editors

Sample preparation is a crucial part of the analytical process and should be part of any analytical chemistry teaching curriculum. Over the last two decades, active research on sample preparation has been fueled by interest in the elimination of organic solvent from environmental analysis and the rapid analysis of biological samples. This new development results in the miniaturization of the extraction process, leading to new micro-configurations and solvent-free approaches. The fundamental understanding of extraction principles has advanced in parallel with the development of new technology. Recently, new sorbents such as silica, carbon-based, polymeric and metal organic frameworks have been introduced, increasing the performance of all sorbent-based sample preparation techniques. Furthermore, technological developments have made it possible to obtain these new nanomaterials (NMs) which immediately showed themselves to be promising in separations. The challenge in this Special Issue is to apply micro-extraction techniques to molecules of bio-pharmaceutical interest from various matrices and their quantification using chromatographic techniques coupled with sensitive detectors.

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Message from the Editor-in-Chief

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