Special Issue

Sensitivity Enhancement Approaches to the Separation Techniques for Pharmaceutical Analysis and Therapeutic Drug Monitoring

Message from the Guest Editors

Several separation techniques are available for pharmaceutical and biomedical analysis, but when these techniques are utilized alone, where it is essential to quantify the analytes at the lowest possible concentrations, the success rates are not very encouraging. This could imply that even robust routine separation techniques that provide reliable specificity and validity at the usual working concentrations can fail at low concentration levels of pharmaceuticals. This poses significant problems for investigating product purity and drug monitoring in bio-fluid samples. Sensitivity enhancement approaches are consequently required to maximize the performance of separation procedures. This issue focuses on potential strategies for enhancing sensitivity as they can be applied to current separation techniques for pharmaceutical analysis and therapeutic drug monitoring.

Guest Editors

Prof. Dr. Samy Emara

Prof. Dr. Randa Abdel-Salam

Prof. Dr. Ibrahim Darwish

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Separations
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
separations@mdpi.com

mdpi.com/journal/separations

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Prof. Dr. Frank L. Dorman
Department of Chemistry, Dartmouth College, Hanover, NH 03755, USA

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