Special Issue

Analysis of Drugs in Complicated Matrices: Latest Advances and Prospects

Message from the Guest Editors

This Special Issue will focus on recent research and developments in multidisciplinary methods of pharmaceutical analysis used to investigate pharmacodynamics, drug quality control, drug toxicity, drug metabolism, and pharmacokinetics (DM/PK). For many analysts, the analysis of stereoisomers, elements, microorganisms, genotoxic impurities, etc. in chemical drugs, biologic drugs, and herbal medicine (HM), and the analysis of drug metabolites and biomarkers in various species, including animals and plants, represent significant challenges because the sample matrices are extremely complicated. Hence, there is a technical barrier regarding isolation and extraction of the compounds or multiple-components, identification and elucidation of structures, and reliable quantitative contents analysis for those compounds of interest at trace levels. Analytical techniques are being developed with increasing selectivity and sensitivity, visualization, high throughput, real-time and online measurement, etc. to promote drug R&D and quality control.

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Deadline for manuscript submissions

closed (30 April 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/72098

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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