

Special Issue

Mapping Drug Fate and Activity: Chromatographic Strategies in Drug Research

Message from the Guest Editors

Understanding drug metabolism is a cornerstone in the study of pharmacology, drug discovery, and drug toxicity. Chromatographic techniques, including liquid chromatography and gas chromatography, and their coupling with mass spectrometry, have been pivotal in advancing our knowledge in these fields. These methods allow precise and accurate quantification of drugs, metabolites, and biomarkers, providing critical insights into absorption, distribution, metabolism, excretion, and toxicity processes. This Special Issue aims to highlight the latest advancements and applications of chromatographic techniques in the study of drug metabolism. Topics of interest include, but are not limited to:

- Innovations in chromatographic methodologies for metabolite profiling.
- Coupling chromatography with omics technologies for comprehensive and integrative analyses.
- Challenges in analyzing complex biological matrices.
- Applications in toxicology, personalized medicine, and regulatory sciences.
- Development of bioanalytical methods for novel drug entities.

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Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

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