# **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 field. 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.

### **Guest Editors**

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### Deadline for manuscript submissions

20 September 2025



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### Editor-in-Chief

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