

Special Issue

Advances in Toxicological Research on Chemical Entities: Mechanistic Insights and Safety Profiles

Message from the Guest Editor

This Special Issue focuses on advancing toxicological research by investigating the adverse effects, mechanisms, and risk assessment of chemical entities. We invite contributions that enhance understanding of their harmful interactions with biological systems, from molecular disruptions to systemic toxicities. Key areas of interest include in vitro and in vivo studies elucidating cytotoxicity, organ-specific toxicity, and biomarker identification, as well as clinical and pharmacovigilance research on drug safety and adverse reactions. Integrative approaches leveraging metabolomics, transcriptomics, and proteomics are encouraged to provide deeper mechanistic insights. We welcome original research, comprehensive reviews, pharmacovigilance reports, and case studies that address critical gaps in toxicological safety and regulatory decision-making. The goal is to foster evidence-based advancements in chemical risk evaluation and therapeutic safety.

Guest Editor

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Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 27.6 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).