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Drug Metabolism: Latest Advances and Prospects

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Message from the Guest Editors

Dear Colleagues,

Drug metabolism, a pivotal process governing the fate of pharmaceutical compounds within the human body, has witnessed remarkable advancements and holds promising prospects in recent scientific exploration.

In recent years, significant strides have been made in elucidating the intricate mechanisms governing drug metabolism. The integration of advanced technologies, such as high-resolution mass spectrometry, computational modeling, and omics approaches, has provided unprecedented insights into metabolic pathways, metabolite identification, and enzyme kinetics.

Moreover, the role of drug metabolism in personalized medicine has garnered substantial attention.Tailoring treatments based on individual metabolic profiles holds immense promise for optimizing drug efficacy, minimizing adverse reactions, and improving therapeutic outcomes.

The future of drug metabolism research is promising. Advances in artificial intelligence and machine learning algorithms are poised to revolutionize the predictive modeling of drug metabolism, enabling faster and more accurate predictions of metabolic pathways and metabolite profiles for new drug candidates.

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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