Special Issue

Metabolic Insights into Perioperative Cardiovascular Risk and Outcomes

Message from the Guest Editors

Metabolic pathways are increasingly recognized as decisive determinants of myocardial resilience and vascular stability. Advances in metabolomics, precision phenotyping, and perioperative monitoring now allow us to move beyond traditional risk scores toward mechanism-driven stratification and targeted interventions. These innovations challenge us to reconsider long-held assumptions about ischemia, heart failure, and postoperative complications. The contributions in this issue bring together clinicians and translational scientists to illuminate how metabolic remodelling influences perioperative outcomes—as well as how it may be modulated to improve them. By integrating bench discoveries with bedside application, we aim to redefine cardiovascular risk not merely as a function of anatomy or comorbidity but as a dynamic metabolic state. Together, these insights chart a path toward more predictive, personalized, and preventative perioperative cardiovascular care.

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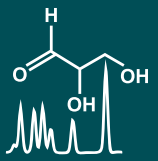

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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