

Special Issue

Evolving Landscape of Cardiovascular Pathophysiology

Message from the Guest Editor

Drawing on current trends and recent breakthroughs in the field of cardiovascular medicine, this Special Issue, “Evolving Landscape of Cardiovascular Pathophysiology”, will bring together cutting-edge research articles and comprehensive reviews that illuminate the complex biological processes driving cardiovascular disorders. This Special Issue will feature research exploring emerging cardio-metabolic insights, including endothelial metabolomics, inflammatory mechanisms, and single-cell transcriptomics in cardiac adversities in humans and experimental models. Insights into the gut–heart axis, including the role of gut dysbiosis in promoting atherosclerosis, hypertension, and heart failure, can aid in identifying potential therapeutic targets for balancing the gut microbiota. We also welcome research on AI-based technologies for predicting conditions such as cardiomyopathies and heart failure. We also encourage work on precision diagnostics and therapeutic innovations for this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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