

## Special Issue

# Molecular Pathways and Their Clinical Implications in Ischemic Heart Disease and Heart Failure: From Pathophysiology to Therapeutic Strategies

### Message from the Guest Editors

This Special Issue of *Biomedicines* aims to explore the latest insights into the molecular characterization of IHD and HF, from pathophysiological mechanisms to novel therapeutic approaches. We welcome contributions that elucidate the role of inflammation, oxidative stress, mitochondrial dysfunction, and genetic/epigenetic modifications in the progression of IHD and HF. Studies on biomarkers, molecular imaging techniques, and innovative pharmacological or gene-based therapies are particularly encouraged. Additionally, research on personalized and precision medicine approaches for optimizing patient outcomes will be highly relevant. This Special Issue invites original research articles, reviews, and clinical studies that enhance our understanding of molecular pathways in IHD and HF and pave the way for future translational applications. By bridging the gap between basic science and clinical practice, we aim to foster the development of cutting-edge, patient-centered treatment strategies.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 January 2026)



## Biomedicines

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## About the Journal

### Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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### Editor-in-Chief

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