

## Special Issue

# Molecular Mechanisms, Pathogenesis, and Treatment of Cardiovascular Diseases

### Message from the Guest Editors

Cardiovascular diseases (CVDs) remain the leading cause of mortality worldwide, underscoring the urgent need to unravel their complex molecular underpinnings and translate these insights into effective therapies.

The pathogenesis of chronic CVDs such as atherosclerosis, hypertensive heart disease, and heart failure involves multifactorial interactions among genetic, epigenetic, metabolic, and environmental components. This intricate network is being progressively decoded through the integration of high-throughput technologies including genomics, transcriptomics, proteomics, and metabolomics. For this Special Issue, we invite the submission of cutting-edge contributions elucidating the molecular pathways of CVDs, showcasing innovative diagnostic platforms, and proposing novel therapeutic targets. We particularly welcome interdisciplinary research that translates basic science to clinical applications to foster a more precise, predictive, and preventive approach to cardiovascular care.

### Guest Editors

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### Deadline for manuscript submissions

30 April 2026



## Biomolecules

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### Message from the Editorial Board

*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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### Editors-in-Chief

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