## **Special Issue**

## Cardiovascular Disease: Molecular Pathologies, and Therapeutic Strategies

## Message from the Guest Editor

Cardiovascular disease (CVD) involves conditions including coronary artery disease, hypertension, and heart failure, and it is a leading cause of global mortality. At the molecular level, atherosclerosis plays a central role, driven by dysregulated lipid metabolism, chronic inflammation, and endothelial dysfunction. Genetic factors, such as mutations in genes related to lipid metabolism, also contribute to CVD risk. This Special Issue will focus on key areas such as the role of lipid metabolism dysregulation, chronic inflammation, and endothelial dysfunction in atherosclerosis; the impact of Renin-Angiotensin-Aldosterone System (RAAS) overactivation in hypertension; and the contribution of myocardial fibrosis and neurohormonal imbalances to heart failure. Additionally, it will address genetic factors influencing CVD risk and the implications for personalized medicine. Apart from develop diagnostic tools, we aim to highlight innovative therapeutic strategies that target these molecular pathways, including novel pharmacological interventions, gene therapies, and lifestyle modifications.

#### **Guest Editor**

Dr. Vaia Lambadiari

School of Health Sciences, National and Kapodistrian University of Athens, Athens, Greece

## Deadline for manuscript submissions

closed (30 June 2025)



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/229129

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





## 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.

### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

