

## Special Issue

# Molecular Mechanism in Cardiovascular Pathology

### Message from the Guest Editor

Understanding the molecular basis of cardiovascular diseases (CVDs) is crucial for advancing diagnostics, treatment, and prevention strategies. At the heart of these diseases are complex genetic, cellular, and biochemical interactions that regulate heart function and blood vessels. By deciphering these molecular mechanisms, researchers can identify biomarkers for early detection and develop targeted therapies to improve patient outcomes. This knowledge also offers insights into the underlying causes of conditions such as atherosclerosis, heart failure, and many others, paving the way for more personalized and effective medical interventions. This Special Issue focuses on recent studies that aim to investigate the molecular basis of cardiovascular diseases including inflammatory, degenerative, and functional conditions, with a particular interest on sudden death, cardiomyopathies, coronary artery diseases, pericarditis, and heart failure. Submissions of pathological and molecular studies including biomolecular experiments (but not pure clinical experiments) are welcomed to comply with the aim of the journal.

### Guest Editor

Dr. Andrea Marzullo

Section of Pathology, Department of Precision and Regenerative Medicine and Ionian Area (DIMEPREJ), University of Bari, 70124 Bari, Italy

### Deadline for manuscript submissions

20 October 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/219908](https://mdpi.com/si/219908)

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

[mdpi.com/journal/  
ijms](https://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



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### 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)