

Special Issue

From Bench to Bedside: Well-Established and Emerging Preclinical Models in Cardiovascular Research

Message from the Guest Editors

As is widely known, cardiovascular diseases are among the leading causes of death worldwide; therefore, advances in technologies concerning preclinical models able to produce translational results are of extreme interest. This Special Issue aims at introducing the most advanced tools currently available to both preclinical researchers and clinicians involved in cardiovascular studies. Original articles and reviews describing all experimental models potentially useful for cardiovascular research are accepted. This will include, among others, in silico procedures, mathematical/experimental models derived from Quantum Biology, Omics sciences, in vivo/in vitro models and the emerging field of the organoids and 2D cultures cultivated on chips and in micro/millifluidic systems. This Special Issue seeks to focus on both basic science and translational research as well as clinical studies in order to have a complete overview of the latest and advanced study models. Pure clinical studies will not be suitable, but clinical submissions with biomolecular experiments are welcome.

Dr. Veronica Dusi

Guest Editors

Dr. Laura Calvillo

Cardiology Research Laboratory, Department of Cardiology, Istituto Auxologico Italiano, IRCCS, 20145 Milan, Italy

Dr. Veronica Dusi

1. Cardiology, Department of Medical Sciences, University of Turin, Turin, Italy
2. Division of Cardiology, Cardiovascular and Thoracic Department, 'Città della Salute e della Scienza' Hospital, Turin, Italy

Deadline for manuscript submissions

30 August 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/172732

*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](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)