

Special Issue

Platelets at the Intersection of Atherosclerosis Processes

Message from the Guest Editor

Atherosclerosis begins with injury to the endothelium caused by factors such as high blood pressure, diabetes, smoking, and high levels of LDL cholesterol. Platelets react by attaching to the injured endothelium, releasing chemokines and adhesion molecules which activate immune cells and intensify inflammation. This interaction attracts immune cells to form plaques, especially in areas of shear stress, where proteins like platelet-endothelial cell adhesion molecule-1 (PECAM-1) strengthen the adhesion between platelets and endothelial cells. Additionally, platelets contribute to inflammation by forming aggregates with leukocytes and increasing vascular permeability. Platelets serve as key players in the complex interplay of factors that drives atherosclerosis, making them a critical target for therapeutic strategies aimed at reducing cardiovascular risk.

Guest Editor

Prof. Dr. Maria Greabu

Department of Biochemistry, Faculty of Dentistry, Carol Davila University of Medicine and Pharmacy, 050474 Bucharest, Romania

Deadline for manuscript submissions

20 July 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/224015

*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)* 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

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