

## Special Issue

# Molecular Mechanisms, Pathogenesis, and Novel Therapeutic Strategies in Cardiovascular Disease

### Message from the Guest Editor

Aneurysms, characterized by the localized dilation of blood vessels, pose a significant health risk due to the potential for rupture and life-threatening hemorrhage. In recent years, there has been growing interest in understanding the molecular mechanisms underlying the development and progression of aneurysms. This Special Issue aims to highlight recent advances in aneurysm research, focusing on the molecular aspects of aneurysm formation, progression, and novel therapeutic strategies. We particularly encourage submissions that provide in-depth insights into the molecular mechanisms of aneurysm pathobiology and the intricate interplay between various cellular and molecular factors contributing to aneurysm development. Contributions exploring innovative therapeutic approaches, such as gene therapy, stem cell therapy, and pharmacological interventions targeting specific molecular pathways, are also welcome.

---

### Guest Editor

Dr. Dai Yamanouchi

Division of Vascular Surgery, Department of Surgery, University of Wisconsin School of Medicine and Public Health, 1111 Highland Avenue, Madison, WI 53705, USA

---

### Deadline for manuscript submissions

closed (20 August 2024)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/170778](https://mdpi.com/si/170778)

*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)* 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)