

Special Issue

Cellular and Molecular Mechanisms in Diabetes Therapies

Message from the Guest Editor

Diabetes mellitus is a major and growing global health concern, characterized by complex metabolic dysfunctions and a wide spectrum of complications. Despite notable progress in therapeutic development, a deeper understanding of the cellular and molecular pathways that govern diabetes pathogenesis and treatment responses is urgently needed to improve clinical outcomes. This Special Issue of the *International Journal of Molecular Sciences*, under the section *Molecular Endocrinology and Metabolism*, aims to showcase recent advances in the elucidation of molecular and cellular mechanisms involved in diabetes and its therapies. We welcome original research articles, reviews, and short communications focusing on topics ranging from β -cell dysfunction and insulin signaling to immune regulation, metabolic crosstalk, and innovative therapeutic approaches such as gene and stem cell therapies. Particular emphasis will be placed on studies that integrate molecular insights with translational potential, as well as those that explore novel diagnostic or therapeutic targets.

Guest Editor

Dr. Abdelkrim Hmadcha

Biosanitary Research Institute (IIB-VIU), Valencian International University (VIU), 46002 Valencia, Spain

Deadline for manuscript submissions

closed (30 November 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/241668

*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)