

Special Issue

Mast Cell Disorders: From Molecular Mechanisms to Therapeutic Approaches

Message from the Guest Editors

Mast cells are immune cells derived from the myeloid lineage. Mast cell progenitors emerge from the bone marrow, circulate, home to various tissues, and differentiate into mature mast cells. These cells express a high affinity Fc region of the IgE antibody (Fc ϵ RI) on their surface and can secrete a plethora of mediators and cytokines. Immediate-type hypersensitivity is the most known mast cell dysfunction. This Special Issue offers an open access forum for original research articles and reviews that will focus on mast cell disorders other than immediate-type hypersensitivity. Relevant disorders would be primary disorders, i.e., mastocytosis and mast cell activation syndrome (MCAS), and secondary disorders, e.g., infections, inflammatory bowel disease, asthma, tumor neovascularization, and atherosclerosis. Suggested topics include mechanistic insights, diagnostic tools, large-scale epidemiologic data, and therapeutic approaches.

Guest Editors

Prof. Dr. Ehud Razin

Department of Biochemistry and Molecular Biology, Institute for Medical Research Israel-Canada, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem 91120, Israel

Dr. Sagi Tshori

1. Research Authority, Kaplan Medical Center, Rehovot 7661041, Israel
2. Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem 91120, Israel

Deadline for manuscript submissions

closed (31 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/213683

*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)