

Special Issue

Novel Insights into Cellular and Molecular Mechanisms of Autoimmune Disease

Message from the Guest Editors

The cellular and molecular mechanisms underlying autoimmune diseases are complex and multifactorial, involving the dysregulation of various immune cell populations, genetic susceptibility, and environmental factors. Understanding these mechanisms is crucial for developing effective treatments and therapies for autoimmune diseases. Recent technological and scientific advancements have led to novel approaches in studies of the cellular and molecular mechanisms of autoimmune diseases such as single-cell transcriptomics, which enables the analysis of gene expression in individual cells. High-throughput screening technologies have also been employed to identify novel targets for drug development. These techniques enable the rapid screening of large libraries of compounds to identify molecules that can modulate specific cellular pathways involved in autoimmune diseases. The purpose of this Special Issue is to increase the depth of understanding pertinent to cellular and molecular mechanisms of autoimmune diseases, as well as to identify targets of novel therapy and possible side effects of immune blockage used in the treatment of autoimmune diseases.

Guest Editors

Dr. Kassem Sharif

Department of Gastroenterology, Chaim Sheba Medical Center,
Affiliated to Tel Aviv University, Tel Aviv, Israel

Dr. Adi Lahat

Department of Gastroenterology, Chaim Sheba Medical Center,
Affiliated to Tel Aviv University, Tel Aviv, Israel

Deadline for manuscript submissions

closed (20 January 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/165890

*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)