

## Special Issue

# Molecular Mechanisms of Antiviral Agents and Antiviral Therapy

### Message from the Guest Editor

This Special Issue aims to publish groundbreaking research and advances in the field of antiviral therapeutics including the use of molecular virology for the development of antiviral screening platforms. It emphasizes innovative methodologies, including gene-editing tools, RNA interference technologies, nanomedicine, and state-of-the-art viral genetics to combat emerging viral threats. This issue will explore the hindering of molecular mechanisms of viral replication and host–pathogen interactions by promising antivirals, providing insights into the cellular and biochemical frameworks that underpin viral infections. We are pleased to invite you to publish your groundbreaking research in our Special Issue including research articles and reviews of time tested techniques. Research areas may include (but are not limited to) the following: molecular virology, host–pathogen interactions, high-throughput platforms, animal models for antiviral testing, vector–pathogen interphase, and vector–host interphase. We look forward to receiving your contributions.

### Guest Editor

Dr. Jesus Alberto Silvas  
U.S. Army Reserves, Aurora, CO 80045, USA

### Deadline for manuscript submissions

30 September 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/236416](https://mdpi.com/si/236416)

*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*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

---

### 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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