

## Special Issue

# Antivirals and Vaccines: Molecular Research in Treatment and Prevention

### Message from the Guest Editor

As the HIV, HCV and SARS-Cov-2 pandemics well illustrate, antivirals or vaccines have been crucial to control transmission, prevent disease progression and avert a very significant number of deaths caused by viral infections. However, vaccines are still not available for most virus infections and diseases including those caused by HIV and HCV. Likewise, a very limited number of drugs is currently available to treat deadly viral infections such as lower respiratory infections caused by RSV, influenza viruses and coronaviruses. Moreover, drug resistance is increasing in certain viruses such as HIV threatening the success obtained so far in controlling this pandemic. New and better antiviral drugs are in need to fight this global public health threat. This special issue of the International Journal of Molecular Sciences seeks to attract top level publications on the design, development and validation of new antivirals and vaccines to treat and prevent human viral diseases. We invite you to share with us your most insightful primary research work, reviews, and hypothesis on these important topics.

### Guest Editor

Prof. Dr. Nuno Taveira

Research Institute for Medicines-FFUL (iMed.Ulisboa), Universidade de Lisboa (University of Lisbon), Lisbon, Portugal

### 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/164403](https://mdpi.com/si/164403)

*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)