

## Special Issue

# Viral Infections: Physiology, Pathophysiology, Pathogenesis, Diagnosis and Treatment

### Message from the Guest Editors

Viral infections have long been of interest to physicians and scientists around the world; however, it is only the development of molecular techniques in recent decades that has made it possible to understand many aspects of viral biology and their potential for transmission. Today, viral zoonotic diseases are becoming an increasing threat. This phenomenon is fostered by the increase in the size of both populations (human and animal) and the accompanying anthropogenic environmental degradation, as well as the need to convert wasteland into agricultural land and the interspecies transfer of pathogens resulting from the destruction of wildlife habitats and the environment, and climate change. In the fight against zoonoses, research indicating the mechanisms by which viruses cross interspecies barriers, their adaptability and mutagenic properties is extremely important. We are pleased to invite you to submit articles describing and discussing the latest data on the pathogenesis, physiology, molecular biology, diagnosis and treatment of viral infections, with particular emphasis on research at the molecular level.

### Guest Editors

Dr. Dominika Marta Stygar

Department of Physiology, Faculty of Medical Sciences in Zabrze,  
Medical University of Silesia, Jordana 19 Street, 41-808 Zabrze, Poland

Prof. Dr. Barbara Bażanów

Department of Pathology, Division of Microbiology, Wrocław University  
of Environmental and Life Sciences, Norwida 31, 50-375 Wrocław,  
Poland

### Deadline for manuscript submissions

closed (20 June 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/205514](https://mdpi.com/si/205514)

*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)