

## Special Issue

# Insights into Viral Pathogenesis: Host Antiviral Responses and Viral Countermeasures

### Message from the Guest Editor

Virus–host coevolution has resulted in remarkable diversity in both host antiviral responses and viral countermeasures to overcome such host defenses. Identifying and characterizing virus–host interactions within this evolutionary “arms race” is critical for understanding how the outcomes of these interactions favor either productive viral replication or abortive infection. For this Special Issue, original research articles, review articles, and short communications are welcome. Research areas of interest include (but are not limited to): host innate and adaptive antiviral immune responses, mechanisms of viral evasion of innate or adaptive immune responses, and animal model studies investigating antiviral host immune responses and/or viral pathogenesis/virulence. Translational studies that apply basic concepts in virus–host interactions to new therapeutic strategies (e.g., oncolytic virotherapy, gene therapy, etc.) are also welcome. Don Gammon

---

### Guest Editor

Dr. Don Gammon

Department of Microbiology, University of Texas Southwestern Medical Center, Dallas, TX 75390, USA

---

### Deadline for manuscript submissions

20 February 2025



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/183227](https://mdpi.com/si/183227)

*International Journal of  
Molecular Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[ijms](https://www.ijms.com)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/ijms)

[ijms](https://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 (Inorganic Chemistry)