



Advances in Structure–Function Investigations of Viruses

Guest Editor:

Prof. Dr. R. Holland Cheng

Department of Molecular and Cellular Biology, University of California, Davis, CA 95616, USA

Deadline for manuscript submissions:

20 October 2024

Message from the Guest Editor

This Special Issue, “Advances in Structure–Function Investigations of Viruses”, includes case studies aiming to reflect highly coherent interplays between macromolecular structures and evolved functions illuminated by studies of microscopy, crystallography, spectroscopy, and computer modeling. This Special Issue will provide biologists with a broad forum to exchange structural descriptors of fascinating virus systems for brainstorming novel solutions in biomedicine collectively in one volume.

Virus infections involve the utilization of large macromolecular assemblies as a dynamic consequence of cooperativity and metastability. The compilation and integration of the methodology provide time-resolved observations on the reactivity of structures from near-atomic resolution to various molecular or cellular levels of descriptors. This Special Issue welcomes exploration of extended themes in intracellular networking/compartimentation utilized in the cell entry and replication cycles by various viruses.

This Special Issue will provide updates on concurrent research to further aid in solving epidemics and designing innovative nanomaterials for the 21st century.





an Open Access Journal by MDPI

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

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.

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)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI