

Special Issue

Studies in Immune Evasion and Membrane Fusion of Virus

Message from the Guest Editor

This Special Issue welcomes original research and reviews that explore the intersection of viral membrane fusion and immune evasion. We are particularly interested in work that sheds light on fusion mechanisms, structure-guided inhibitor design using cryo-EM or AI-driven modeling, and the molecular basis of immune escape (such as glycan masking or glycoprotein mutations). We also invite studies on host factors that influence viral fusion or immune evasion, like IFITM proteins, proteases, or cytokines, as well as vaccine strategies targeting conserved fusion peptides or broadly acting glycan shield disruptors. Approaches such as deep mutational scanning to anticipate antibody escape are also encouraged.

We invite contributions that offer new insights into viral entry, structural models, or translational strategies that connect in vitro findings with the complexity of living systems. By bringing together membrane biology, virology, immunology, and structural science, this issue aims to highlight how viruses manipulate membranes and how we can turn that knowledge into broadly protective antivirals and vaccines.

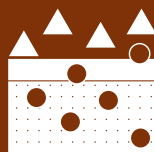
Guest Editor

Dr. Panke Qu

Department of Microbiology & Immunology, Columbia University, New York, NY 10027, USA

Deadline for manuscript submissions

31 October 2025



Membranes

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed

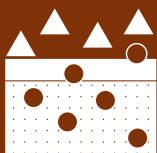


mdpi.com/si/240372

Membranes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
membranes@mdpi.com

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





Membranes

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC
3010, Australia

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), Ei Compendex, PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Polymer Science) / CiteScore - Q1 (Chemical Engineering (miscellaneous))