

Special Issue

Viral and Bacterial Infections in Older Adults: From Mechanisms to Therapies

Message from the Guest Editor

As individuals grow older, their immune systems may weaken, leaving them more vulnerable to infections caused by bacteria and viruses.

Despite significant advancements in therapeutic approaches to counteract viral and bacterial infections in recent years, there remains a lack of understanding about how both types of infections affect the cellular transcriptomic profile, as well as the quantitative and qualitative cellular protein patterns.

Early and accurate diagnosis of infection is crucial for improving patient outcomes, reducing antibiotic resistance, and targeting therapy effectively. Therefore, it is essential to advance technologies and bioinformatics to better understand the interactions between viruses, bacteria, and their hosts. Omics approaches, such as genomics, transcriptomics, proteomics, and metabolomics, can provide valuable insights into the underlying mechanisms of bacterial and viral infections in older adults.

This Special Issue plans to give an overview of the most recent advances in the mechanisms of action and innovative therapies against viral and bacterial infections in older adults.

Guest Editor

Dr. Francesco Piacenza

Advanced Technology Center for Aging Research, IRCCS INRCA, 60121 Ancona, Italy

Deadline for manuscript submissions

closed (22 February 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/181433

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)