

Special Issue

The Role of Protease Inhibitors in Infectious Diseases

Message from the Guest Editor

Proteases from numerous pathogenic organisms have been actively pursued as drug targets. In addition to the clinical success of HIV and HCV protease inhibitors, the recent approval of the COVID-19 oral drug Paxlovid represents a major advance in our efforts in targeting the viral proteases. In addition to their critical roles in viral infections, proteases are also vital in the replication of many other pathogens including bacteria, fungi, malaria, and prions. Although numerous protease inhibitors have been reported, the majority of them failed to advance to animal models and clinical trials due to the limitations of low target selectivity, poor stability, a lack of oral bioavailability, and unfavorable pharmacokinetic properties associated with the peptide scaffold. As such, this Special Issue is organized to solicit submissions that will address these key issues. Both review articles and research articles addressing the current advances and state-of-art research of protease in the infectious disease field are welcomed.

Guest Editor

Dr. Jun Wang

Departments of Medicinal Chemistry, Ernest Mario School of Pharmacy, Rutgers, the State University of New Jersey, Piscataway, NJ, USA

Deadline for manuscript submissions

closed (31 December 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



mdpi.com/si/132076

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

mdpi.com/journal/

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





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



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)