



## The Role of Lysosomal Proteases in Cancer and Infectious Diseases

Guest Editor:

**Prof. Dr. Christian Studenik**

Department of Pharmaceutical  
Sciences, Division of  
Pharmacology and Toxicology,  
University of Vienna, 1090 Vienna,  
Austria

Deadline for manuscript  
submissions:

**closed (15 July 2024)**

### Message from the Guest Editor

Lysosomal proteases are classified into three classes according to their active sites, cysteine cathepsins (which include cathepsins B, H, V, W, K, L, X, C, S, F and O), serine cathepsins (which include cathepsins G and A), and aspartic cathepsins (which include their two members cathepsins D and E).

The aim of this Special Issue is to develop the knowledge of lysosomal proteases and explore how they play an important role in physiological processes and diseases.

Topics of interest include, but are not limited to, the following:

- Impact of lysosomal proteases in cancer;
- Impact of lysosomal proteases in viral diseases;
- Impact of lysosomal proteases in neurodegenerative diseases and inflammation;
- Effect of lysosomal protease inhibitors on tumor progression;
- Effect of lysosomal proteases on radiation therapy treatment;
- Induction of apoptosis of lysosomal cathepsin inhibitors in cancer cells;
- Molecular mechanism underlying the inhibition of lysosomal proteases;
- Role of lysosomal proteases on the cytotoxicity of fungal and bacterial toxins;
- Role of lysosomal proteases in aging.





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 (Organic 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