

Special Issue

Autophagy and Apoptosis in Mammal Cells

Message from the Guest Editors

The importance of autophagy or apoptosis in maintaining cellular/tissue homeostasis is widely known. While autophagy eliminates and recycles damaged or dysfunctional cellular components and is generally considered a prosurvival process, apoptosis is a form of programmed, controlled cell death. Autophagy and apoptosis can be triggered by similar stimuli and their molecular pathways share similar proteins, which both indicate crosstalk between autophagy and apoptosis. Therefore, the dysregulation (defined by inhibition, overactivation, or changes in dynamicity) of one or both processes contributes to the pathogenesis of many diseases, including cancer and neurodegenerative disorders, and is a cause of drug resistance. In this Special Issue, we encourage you to summarize and broaden the knowledge of common pathways, molecules, the importance of autophagy/apoptosis and their relationship, and the consequences of autophagy/apoptosis manipulation in both physiological and pathological conditions. All these may contribute to the development of knowledge surrounding this area. Both original and review manuscripts (raising new issues) are welcome.

Guest Editors

Dr. Kaja Urbańska

Division of Histology and Embryology, Department of Morphological Sciences, Institute of Veterinary Medicine, Warsaw University of Life Sciences (SGGW), Nowoursynowska 159, 02-776 Warsaw, Poland

Dr. Anna Litwiniuk

Department of Neuroendocrinology, Centre of Postgraduate Medical Education, Marymoncka 99/103, 01-813 Warsaw, Poland

Deadline for manuscript submissions

31 August 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/231002

*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)