

Special Issue

Oxidative Stress and Autophagy in Cancer Cells

Message from the Guest Editor

Oxidative stress is an important regulator in various pathways including apoptosis and autophagy. Much of the evidence indicates that autophagy and oxidative stress are both key, important contributors to tumorigenesis and cancer progression. Thus, a detailed study of the role of ROS and autophagy is needed to understand their role in cancer initiation and progression and to design effective therapies targeting redox regulation and autophagy systems for cancer therapy. Various drugs, including phytochemicals and small molecules, are presently being investigated in preclinical and clinical studies that attribute their anticancer activity to ROS induction or to the induction of cell autophagy. Consistently, this Special Issue will cover a selection of recent research topics and current reviews and articles in the field on the role of oxidative stress and autophagy processes in cancer progression.

Guest Editor

Prof. Dr. Abdelhabib Semlali

Oral Ecology Research Group, Faculty of Dental Medicine, Laval University, Quebec, QC G1V 0A6, Canada

Deadline for manuscript submissions

closed (30 June 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/177596

*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)