



NRF2/KEAP1 Signalling in Cancer

Guest Editor:

Dr. Sonia Fantone

Department of Experimental and
Clinical Medicine, Università
Politecnica delle Marche, 60126
Ancona, Italy

Deadline for manuscript
submissions:

closed (20 July 2025)

Message from the Guest Editor

Dear Colleagues,

The nuclear factor erythroid 2-related factor 2 (NRF2)/Kelch-like ECH-associated protein 1 (KEAP1) is the most studied signaling pathway involved in cellular defense against oxidative stress. Oxidative stress is considered a mechanism that increases susceptibility to developing age-related pathologies, including cancer. In addition, NRF2/KEAP1 signaling is involved in chemoresistance and radioresistance occurrence in several types of cancers significantly worsening the outcome of the disease.

Thus, it is necessary to develop new therapeutic approaches that can improve diagnosis and treatment outcomes. Therefore, we need a better understanding of the molecular changes occurring in cancer pathogenesis to develop new molecular biomarkers able to predict tumor behavior and the risk of disease recurrence and chemoresistance. Moreover, understanding the molecular mechanisms involved in NRF2/KEAP1 modulation can significantly improve the therapeutic strategies used in cancer treatment.

This Special Issue welcomes original research articles and reviews related to the role of NRF2/KEAP1 signaling in cancer.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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