

Special Issue

p53 in Cell Death and Cellular Senescence

Message from the Guest Editor

p53, often referred to as the "guardian of the genome", is a crucial tumor suppressor gene involved in maintaining cellular integrity. It plays a key role in responding to various forms of cellular stress, such as DNA damage, ribosomal stress, etc., by regulating cell cycle arrest, apoptosis, ferroptosis and cellular senescence. p53 target genes include p21, which mediates cell cycle arrest, BAX and PUMA, which promote apoptosis, and MDM2, which provides negative feedback regulation of p53 itself. The precise modulation of these target genes is essential for maintaining genomic stability and preventing tumorigenesis, highlighting the critical role of p53 in cellular homeostasis and cancer prevention. We invite all scientists working on p53 to participate in this Special Issue. Original research articles or reviews on all aspects of their molecular mechanisms are welcome. We look forward to your contributions.

Guest Editor

Dr. Ji Hoon Jung

Department of Science in Korean Medicine, Graduate School, Kyung Hee University, 26 Kyungheedae-ro, Dongdaemun-gu, Seoul 02447, Republic of Korea

Deadline for manuscript submissions

20 October 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/216337

*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)