# Special Issue

## Research on the Key Role of Ubiquitination in Signaling and Cancer

### Message from the Guest Editor

Ubiquitination plays a pivotal role in regulating key cellular signaling pathways, including those involved in cell proliferation, DNA repair, and apoptosis. By controlling the stability, localization, and activity of critical proteins such as tumor suppressors and oncoproteins, the ubiquitin–proteasome system ensures precise signal transduction and cellular homeostasis. However, dysregulation of ubiquitination—through mutations in E3 ligases, deubiquitinating enzymes, or ubiquitin-binding proteins—can lead to aberrant signaling, the promotion of cancer initiation, progression, and metastasis. Given its central role in oncogenic and tumor-suppressive pathways, understanding the intricate mechanisms of ubiquitination in signaling networks provides critical insights into cancer biology and potential precision medicine approaches. Therefore, in this Special Issue, we will focus on the role of ubiquitination in signal transduction, tumor proliferation and progression, as well as recent advances in drug development and the underlying molecular mechanisms.

### Guest Editor

Dr. Bo Zhao

Engineering Research Center of Cell and Therapeutic Antibody, Ministry of Education, School of Pharmacy, Shanghai Jiao Tong University, Shanghai 200240, China

### Deadline for manuscript submissions

20 August 2026

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/si/246002

*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

# 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

MDPI

# About the Journal

## 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.

## 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

## 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)