

## Special Issue

# Ubiquitination and Deubiquitination in Cellular Homeostasis

### Message from the Guest Editor

For cellular homeostasis, the regulation of selective proteolysis is largely mediated by post-translational modification with coordinated addition and removal of ubiquitin by the ubiquitin–proteasome system. Both ubiquitination and deubiquitination regulate the stability or cellular functions of proteins, allowing regulation of protein turnover, diverse signaling pathways, DNA damage response, etc. Dysregulation of these cellular processes is increasingly being identified as a causative in various human diseases, such as cancers, metabolic diseases, neurodegenerative disorders, and so on. Therefore, a better understanding of the molecular mechanisms in cellular homeostasis will provide new insights into the development of more specific therapeutic approaches. This Special Issue will focus on the role of ubiquitination and deubiquitination, including new insights into diverse cellular processes. Articles submitted can either be original research works regarding these processes or full reviews; however, we kindly encourage authors to provide short and highly focused reviews on specific and hot topics related to cellular homeostasis.

---

### Guest Editor

Prof. Dr. Kwang-Hyun Baek

Department of Biomedical Science, Cell and Gene Therapy Research Institute, CHA University, Seongnam 13488, Republic of Korea

---

### Deadline for manuscript submissions

closed (31 August 2022)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/87611](https://mdpi.com/si/87611)

*International Journal of  
Molecular Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[ijms](https://www.mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/ijms)

[ijms](https://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 (Inorganic Chemistry)