



## The Role of Post-translational Modifications in Chromatin and Cancer

Guest Editor:

**Dr. Emilio Lecona**

Centre for Molecular Biology  
Severo Ochoa (CBMSO)

Deadline for manuscript  
submissions:

**closed (31 July 2022)**

### Message from the Guest Editor

These PTMs control the activity, stability and interaction of both histone and non-histone proteins being deposited and removed by several dedicated sets of enzymes. The dysregulation of these pathways can lead to cancer development by fostering uncontrolled proliferation or promoting the loss of cell identity. In addition, cell transformation can also elicit changes in the PTMs present on proteins on chromatin what can contribute to the acquisition of specific phenotypes by cancer cells. These enzymes are potential targets for cancer treatment and many advances have been made in the last years in the development of inhibitors that will specifically target PTMs altered in cancer cells through the inhibition of the enzymes that deposit or remove specific modifications.

For this special issue we look forward to receiving reviews or original works that delve deeper in the mechanisms through which PTMs control chromatin metabolism from replication to transcription and repair, how these processes contribute to the development of cancer and the recent advances in the development of therapies that target the enzymes in charge of the specific PTMs of proteins in chromatin.





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## 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