



an Open Access Journal by MDPI

Molecular and Cellular Factors Regulating Signal Transduction, Diseases, and Stem Cells

Guest Editor:

Dr. Suresh Ramakrishna

Department of Biomedical Science and Engineering,
Hanyang University, Seoul 04763,
Korea

Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editor

Dear Colleagues,

An upsurge of knowledge on the molecular and cellular mechanisms that mediate cancer and other diseases has been reported in recent years. On another note, there are several transcriptional factors which determine the stem cell's fate. Among them, post-translational modification by ubiquitin molecules is a key regulatory process for the determination of a stem cell's fate. Ubiquitination and deubiquitination are the major cellular processes used to balance the protein turnover of several transcription factors that regulate stem cell differentiation.

This Special Issue welcomes both original papers and review articles on recent insights in this field.

Keywords: oncogenes and tumor suppressors; ubiquitin-proteasome pathway; protein degradation and protein stability; pre-clinical research and clinical trials; anti-cancer drug; drug resistance; cancer pathogenesis and therapeutics; enzymatic functions; cell cycle regulation; DNA damage, DNA repair and cell death; stem cell regulation and differentiation; transcriptional factors' regulation; disease association and progression



mdpi.com/si/97408

Special Issue



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 (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](https://twitter.com/IJMS_MDPI)