

Special Issue

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

Message from the Guest Editor

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

Guest Editor

Dr. Suresh Ramakrishna

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

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4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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