



an Open Access Journal by MDPI

New Perspectives in Hematopoietic Stem Cell and Leukemia

Guest Editors:

Dr. Rachid Lahlil

Institut de Recherche en Hématologie et Transplantation (IRHT), Hôpital du Hasenrain, 87 Avenue d'Altkirch, 68100 Mulhouse, France

Dr. Hassan Lemjabbar-Alaoui

Department of Surgery, University of California San Francisco, San Francisco, CA 94115, USA

Deadline for manuscript submissions: **31 July 2024**

Message from the Guest Editors

Dear Colleagues,

The hematopoietic system is constantly controlled by the combinatorial action of growth factors, cytokines, and transcription factors, which regulate cell type diversification. It is generated from the hematopoietic stem cells undergoing constant self-renewal. (HSCs) differentiation. Despite commitment. and current advances, how these environmental cues determine stem cell fate remains to be ascertained. In contrast, the dysregulation of these elements and their interactions can lead to the appearance of abnormal cells at different hematopoietic compartments, mainly originating from the transformation of HSCs to cancer stem cells. This Special aims to highlight the latest Issue advances in understanding normal hematopoiesis regulation and leukemogenesis, current knowledge, future and perspectives regarding emergent therapeutics. Reviews or articles on molecular regulation, mechanisms of cell transformation, therapy, clonal hematopoiesis, and applications for future targeted therapies will be welcome.

Specialsue



mdpi.com/si/176958





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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

International Journal of Molecular Sciences Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/ijms ijms@mdpi.com X@IJMS_MDPI