

Special Issue

Molecular Research in Hematologic Malignancies

Message from the Guest Editors

The molecular regulation of hematopoietic stem cells (HSCs), including their proliferation, self-renewal, and differentiation, plays a central role in the development and progression of hematologic malignancies. A thorough understanding of these regulatory mechanisms, alongside the identification of novel pathways and biomarkers such as mutations, differentially methylated regions, and non-coding RNAs, is crucial for enhancing diagnostic precision, prognostic assessment, and the development of targeted therapies. This Special Issue aims to highlight recent advances in the molecular regulation of normal hematopoiesis and the mechanisms that promote leukemogenesis. It also seeks to address existing gaps in the knowledge and propose future directions for innovative diagnostic and therapeutic approaches. We welcome the submission of original research articles and comprehensive reviews on the following topics:

- Molecular mechanisms regulating hematopoiesis;
- Drivers of malignant transformation;
- Non-invasive diagnostic and prognostic strategies and innovations;
- Emerging targeted therapies in hematologic malignancies.

Guest Editors

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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.

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