

Special Issue

Genomic Oncology and Medicine in Leukemia: From Molecular Pathogenesis to Novel Therapeutic Approaches

Message from the Guest Editor

Leukemia is an aggressive hematologic malignancy often characterized by specific genomic alterations. The standard treatment strategy for acute leukemia largely comprises intensive chemotherapy with or without hematopoietic stem cell transplantation. However, long-term survival can be achieved in only up to approximately three-quarters of patients, even in the favorable risk group. Molecular-targeted therapy has had a significant impact on clinical practice, especially for patients with specific genomic abnormalities such as FLT3- and IDH1/2-mutations. In this Special Issue, our focus is on the cutting edge of genomic oncology and precision medicine in leukemia, and the progress from molecular pathogenesis to novel therapeutic approaches.

Guest Editor

Dr. Yosuke Minami

National Cancer Center Hospital East, Kashiwa 277-8577, Chiba, Japan

Deadline for manuscript submissions

closed (20 January 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/179695

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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

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)