

Special Issue

Molecular and Genetic Pathogenesis of Hematological Disorders

Message from the Guest Editor

Hematological disorders, including leukemias, lymphomas, myelomas, anemias, and clotting disorders, account for a significant portion of the global disease burden, with hematologic malignancies alone constituting approximately 10% of new cancer diagnoses in 2023. Understanding the molecular and genetic mechanisms underlying these disorders is crucial for developing targeted therapies. Recent advancements have highlighted the genetic mutations, epigenetic modifications, and molecular pathways driving these diseases. Breakthroughs in gene editing technologies, such as CRISPR/Cas9, have revolutionized our ability to identify and modify genetic aberrations. Additionally, insights into signal transduction pathways and the role of the microenvironment have deepened our understanding of disease progression and therapeutic resistance. This Special Issue compiles original research and reviews on novel genetic biomarkers, innovative therapeutic strategies, and mechanisms of treatment resistance. By bringing together pioneering research, this Special Issue aims to advance our understanding and treatment of hematological disorders, ultimately improving patient outcomes.

Guest Editor

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).