

Special Issue

Acute Myeloid Leukemia: From Molecular Insights to Therapeutic Innovations

Message from the Guest Editor

Acute myeloid leukemia (AML) is a highly heterogeneous hematologic malignancy characterized by the abnormal proliferation and differentiation of myeloid progenitor cells. While genetic mutations play a crucial role in AML pathogenesis, accumulating evidence is highlighting the significance of epigenetic dysregulation in disease initiation, progression, and therapeutic resistance. DNA methylation, histone modifications, chromatin remodeling, and non-coding RNAs contribute to leukemogenesis by altering gene expression without modifying the DNA sequence. An understanding of these mechanisms could lead to new opportunities for prognostic biomarker discovery and the development of targeted epigenetic therapies. This Special Issue will bring together cutting-edge research on the role of epigenetics in AML, highlighting novel insights into disease biology, emerging therapeutic strategies, and clinical implications. We welcome original research articles, reviews, and perspectives that will advance our understanding of epigenetic regulation in AML and its potential in therapeutic intervention.

Guest Editor

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