

Special Issue

Molecular and Cellular Mechanisms of Therapy Resistance in Acute Myeloid Leukemia

Message from the Guest Editor

Therapy resistance remains a major obstacle to curing acute myeloid leukemia (AML). Relapse often reflects the convergence of clonal evolution, the persistence and plasticity of leukemia stem cells, protective cues from the bone marrow niche, and adaptive epigenetic and metabolic programs. Closing these gaps requires mechanistic insight tightly linked to biomarkers and therapeutic strategies that can be tested in patients. A deeper understanding of the molecular and cellular mechanisms contributing to therapy resistance is needed to understand the biology of AML and to design novel strategies with which to target AML cells. This Special Issue will explore the molecular pathogenesis of AML, biological insights into leukemia stem cells, the microenvironment of AML cells, therapy resistance, novel therapeutic targets, and immunotherapy and clinical trials in AML. We invite original research articles, brief reports, comprehensive or focused reviews, and method/resource papers. Our goal is to assemble a collection that deepens biological understanding and points to actionable, testable strategies for durable remissions in AML. We look forward to your contributions.

Guest Editor

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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