



Leukemias: State-of-the-Art Molecular Pathogenesis and Influence of the Microenvironment

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Deadline for manuscript
submissions:

20 August 2024

Message from the Guest Editors

Structural and submicroscopic chromosomal aberrations are inextricably linked to leukemia pathogenesis. It is suggested that many of these alterations occur along with other genetic changes to cause the disease. While genomic aberrations undergo leukemogenesis, the bone marrow microenvironment is being increasingly put forward as a factor of leukaemia progression, treatment resistance, and disease relapse. Recent studies have already identified recurrent mutations in the genes that regulate tumor cell–microenvironment interactions required for tumor cell growth; however, it is not clear how leukemic cells bring about modifications in the microenvironment.

Understanding how these cooperative genetic alterations and microenvironments affect cell proliferation and differentiation is essential for further therapy improvements. Analysis of the genetic and epigenetic abnormalities of leukemia cells allows us to establish potential targets for clinical intervention and novel treatment methods. Authors are invited to submit original research and topical review articles related to these topics.





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