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Advances in Molecular Cell Biology of Leukemias

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Deadline for manuscript submissions:

20 December 2024

Message from the Guest Editors

Leukemias are heterogeneous and biologically complex blood malignancies affecting people across entire lifetimes, from childhood to elderly age, with various clinical outcomes.

Over the last decades, dissection of the pathogenetic mechanisms of leukemia, through both classical and very advanced techniques, has brought to light the role of recurrent mutations, epigenetic alterations, and aberrant activation of oncogenic signaling pathways that confer survival advantages to leukemic cells. Understanding leukemogenic mechanisms and tumor cell behavior can allow precision medicine to radically transform diagnostic and therapeutic approaches, thus greatly improving the outcomes of patients with hematological malignancies.

The purpose of this Special Issue is to delve into the continuous expanding field of molecular research on leukemia, in both diagnostic and therapeutic fields, to provide precious translational tools that can help to face yet unmeet clinical needs.

Studies about molecular biomarkers related to pathogenesis, diagnosis, prognosis, new therapeutic opportunities, and treatment resistance of leukemias are welcomed.











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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network

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