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Acute Lymphoblastic Leukemia Cell Line and Mouse Model (20100059)

Technology No. 20100059

Acute Lymphoblastic Leukemia Cell Line and Mouse Model

The STAT5b-CA x pax5+/- leukemic cell line grows in the presence of interleukin-7. Withdrawal of IL7 results in cell death. We have also treated the STAT5b-CA x pax5+/- cell line with the histone deacetylase inhibitor apicidin. Cell line can be used to identify genes required for transformation and survival of the leukemic cells. Likewise, both the cell line and mouse model can be used to identify new drugs that might be efficacious against this form of leukemia; Activation of STAT5 can be observed in a high percentage (>35%) of adult ALL patients; likewise, mutations in pax5 have been found in >30% of human ALL patients. Thus, this model mimics one of the most common forms of leukemia.

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