Leukaemia Section
Short Communication

\textbf{t(1;3)(p32;p21)}

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\begin{tabular}{|l|}
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| Disease & T-cell ALL \\
| Genes involved and Proteins & \\
| \textbf{TAL1} & \\
| Location: & 1p32 \\
| DNA / RNA & Complex alternate splicing. \\
| Protein & Contains a basic Helix-Loop-Helix (DNA binding) domain; forms heterodimers; transcription factor; role in haematopoietic cell differentiation. \\
| \textbf{TCTA} & \\
| Location: & 3p21 \\
| Protein & Contains a hydrophobic domain; may be a membrane associated protein. \\
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\end{tabular}

Results of the chromosomal anomaly

\textbf{Hybrid gene}

Description
TCTA and TAL1 are in opposite direction.

\textbf{Fusion protein}

Description
It may be that the promoting regions from TCTA disregulate TAL1 expression.

References


Aplan PD, Johnson BE, Russell E, Chervinsky DS, Kirsch IR. Cloning and characterization of TCTA, a gene located at the site of t(1;3) translocation. Cancer Res 1995 May 1;55(9):1917-21.

This article should be referenced as such: