

t(11;17)(q23;q25)

Clinics and Pathology

Disease	de novo and treatment related acute non lymphocytic leukemia (ANLL), myelodysplastic syndromes (MDS); acute lymphoblastic leukemia (ALL) at times
Phenotype / cell stem origin	various subtypes of ANLL may be found, M4 in particular, but also M1, M2, M5
Epidemiology	at least 24 cases described; often found in children and young adults
Prognosis	poor

Genes involved and Proteins

Gene Name	MLL
Location	11q23
Protein	contains two DNA binding motifs (a AT hook, and Zinc fingers), a DNA methyl transferase motif, a bromodomain; transcriptional regulatory factor; nuclear localisation
Gene Name	MSF
Location	17q25
Protein	protein which belongs to the septin family

Result of the chromosomal anomaly

Hybrid gene Description	5' MLL - 3' MSF; fusion at MLL exon 5; the reciprocal MSF-MLL is also transcribed, but out of frame
Fusion Protein Description	NH2 - AT hook and DNA methyltransferase from MLL fused to most of MSF in COOH

External links

Other database [t\(11;17\)\(q23;q25\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(11;17\)\(q23;q25\)](#) [CancerChromosomes \(NCBI\)](#)

Bibliography

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Contributor(s)

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