

Leukaemia Section

Short Communication

t(11;17)(q23;q12) MLL/RARa

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Clinics and pathology

Disease

M5 acute non lymphocytic leukemia (ANLL).

Clinics

Poorly known: one case, a 39 year old man with 47,XY,+5,t(11;17)(q23;q12).

Genes involved and proteins

MLL

Location

11q23

DNA/RNA

21 exons, spanning over 100 kb; 13-15 kb mRNA.

Protein

431 kDa; contains two DNA binding motifs (a AT hook, and Zinc fingers), a DNA methyl transferase motif, a bromodomain; transcriptional regulatory factor; nuclear localisation.

RARa

Location

17q12-21

Protein

Wide expression; nuclear receptor; binds specific DNA sequences: HRE (hormone response elements); ligand and dimerization domain; role in growth and differentiation.

References

Shekhter-Levin S, Gollin SM, Kaplan SS, Redner RL. Involvement of the MLL and RARalpha genes in a patient with acute monocytic leukemia with t(11;17)(q23;q12) Leukemia. 2000 Mar;14(3):520-2

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