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Leukaemia Section
Short Communication

t(3;21)(p12;q22)

Jean-Loup Huret

Genetics, Dept Medical Information, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France (JLH)

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Clinics and pathology

Disease

M7-AML (megakaryoblastic acute myeloid leukemia) with t(9;22); the t(3;21) may be therapy related.

Epidemiology

Only one case to date, a male patient aged 60 years (Jeandidier et al., 2006).

Cytogenetics

Additional anomalies

t(9;22)(q34;q11).

Genes involved and proteins

Note

The partner of RUNX1 is unknown.

RUNX1

Location

21q22

Protein

Contains a Runt domain and, in the C-term, a transactivation domain; forms heterodimers; widely expressed; nuclear localisation; transcription factor (activator) for various hematopoietic-specific genes.

References

Jeandidier E, Dastugue N, Mugneret F, Lafage-Pochitaloff M, Mozziconacci MJ, Herens C, Michaux L, Verellen-Dumoulin C, Talmant P, Cornillet-Lefebvre P, Luquet I, Charrin C, Barin C, Collonge-Rame MA, Pérot C, Van den Akker J, Grégoire MJ, Jonveaux P, Baranger L, Eclache-Saudreau V, Pagès MP, Cabrol C, Terré C, Berger R. Abnormalities of the long arm of chromosome 21 in 107 patients with hematopoietic disorders: a collaborative retrospective study of the Groupe Français de Cytogénétique Hématologique. Cancer Genet Cytogenet. 2006 Apr 1;166(1):1-11

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