t(4;21)(q35;q22)

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Published in Atlas Database: September 2008
Online updated version: http://AtlasGeneticsOncology.org/Anomalies/t0421q35q22ID1525.html
DOI: 10.4267/2042/44567
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Clinics and pathology

Disease
Myeloproliferative disease evolving towards a M5-AML; the t(4;21) may be therapy related.

Epidemiology
Only one case to date, a female patient aged 74 years (Jeandidier et al., 2006).

Cytogenetics

Additional anomalies
Unrelated clones; one of which with +8, another one with +21.

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


This article should be referenced as such: