

t(8;11)(p11;p15)

Clinics and Pathology

Disease	Acute non lymphocytic leukemia (ANLL)
Note	possibly heterogenous (see data on genes)
Epidemiology	3 cases to date: 1 M1-ANLL, 1 M4-ANLL and 1 case not otherwise specified; two male patients were aged 50 and 64 yrs
Prognosis	one patient died during induction therapy, another one achieved complete remission and was alive at 19 mths+.

Cytogenetics

Cytogenetics	sole anomaly in 1 case, accompanied with del(9q) in another case.
Morphological	

Genes involved and Proteins

Note	<p>In 8p11: WHSC1L1/NSD3 was proved to be implicated in the translocation in one case, while FGFR1 was (only) suspected to be involved in a second case; this case was analysed with two probes flanking FGFR1 over a distance of about 700 kb; the two probes were found to be split in FISH experiments, indicating that FGFR1 was possibly concerned by the break. However, NDS3 is 107 kb long, is at a distance of only 30 kb from FGFR1, and FGFR1 spans 56 kb; therefore, NDS3 is also a candidate in this case.</p> <p>In 11p15: NUP98 was found to be implicated in the translocation in one case; in the second case, probes flanking NUP98 over a distance of about 1 Mb were used; it is likely that NUP98 is also involved in this case, although the involvement of CARS, 600 kb more telomeric than NUP98, is not excluded.</p>
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Gene Name [WHSC1L1/NSD3](#)

Location 8p11

Protein suggested role in chromatin remodeling.

Gene Name [NUP98](#)

Location 11p15

Protein nuclear membrane localisation; nucleoporin: associated with the nuclear pore complex; role in nucleocytoplasmic transport processes

Result of the

chromosomal anomaly

Hybrid gene a 5' NUP98 - 3' NSD3 fusion transcript was detected; the reciprocal transcript was also expressed. The breakpoints occurred between
Transcript exons 11 and 12 of NUP98 and between exons 3 and 4 in WHSC1L1/NSD3.

External links

Other database [t\(8;11\)\(p11;p15\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(8;11\)\(p11;p15\)](#) [CancerChromosomes \(NCBI\)](#)

To be noted

Additional cases are needed to delineate the epidemiology of this rare entity:

you are welcome to submit a paper to our new [Case Report section](#).

Bibliography

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Contributor(s)

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