

## t(1;11)(q23;p15)

### Clinics and Pathology

<b>Disease</b>	Acute non lymphocytic leukemia (ANLL), M2-ANLL type; this leukemia case is likely to be treatment related (see below)
<b>Epidemiology</b>	only 1 case to date, a 55yr old male patient who has had a non Hodgkin lymphoma (NHL) with <a href="#">t(14;18)(q32;q21)</a> 3 yrs before onset of the ANLL.
<b>Evolution</b>	Complete remission of the ANLL was achieved, but the NHL relapsed and an advanced gastric carcinoma was found and the patient died shortly afterwards.

### Genes involved and Proteins

<b>Note</b>	This translocation appears to be closely related to other translocations involving NUP98 and an homeodomain bearing protein, i.e. the t(2;11)(q31;p15), with HOXD13 or with HOXD11 involvement, the <a href="#">t(7;11)(p15;p15)</a> , with <a href="#">HOXA9</a> or with HOXA13 involvement, the <a href="#">t(9;11)(q34;p15)</a> , with <a href="#">PRRX2</a> involvement, and the t(11;12)(p15;q13) ID: <a href="#">njidentif</a> with HOXC11 or with
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<b>Gene Name</b>	PRRX1
<b>Location</b>	1q23
<b>Protein</b>	Protein with a homeodomain

<b>Gene Name</b>	<a href="#">NUP98</a>
<b>Location</b>	11p15.4
<b>Protein</b>	nucleoporin 98, a 98 kDa component of the nuclear pore complex implicated in nucleo-cytoplasmic transport

### Result of the chromosomal anomaly

<b>Hybrid gene Description</b>	In frame fusion of NUP98 to PRRX1 exon 2; no reciprocal fusion transcript
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<b>Fusion Protein</b>	The chimeric protein contains the N-term half of NUP98, including the docking site to the homeodomain of PRRX1.
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## Description

Oncogenesis The PRRX1 homeodomain may be upregulated

## External links

Other database [t\(1;11\)\(q23;p15\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(1;11\)\(q23;p15\)](#) [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

**NUP98 is fused to PMX1 homeobox gene in human acute myelogenous leukemia with chromosome translocation t(1;11)(q23;p15).**

Nakamura T, Yamazaki Y, Hatano Y, Miura I.

Blood. 1999; 94: 741-747.

Medline [10397741](#)

**Translocation (1;11)(q23;p15), a novel simple variant of translocation (7;11)(p15;p15), in a patient with AML (M2) accompanied by non-Hodgkin lymphoma and gastric cancer.**

Hatano Y, Miura I, Kume M, Miura AB.

Cancer Genet Cytogenet. 2000; 117: -23.

Medline [10700860](#)

## Contributor(s)

Written 09-2005 Jean Loup Huret

## Citation

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