

## t(2;14)(p13;q32)

### Clinics and Pathology

- Disease** Found so far in 6 cases of chronic lymphocytic leukemia (CLL), 1 diffuse, mixed small/large cell non Hodgkin lymphoma (NHL), and 3 cases of acute lymphocytic leukemia (ALL): one T-ALL and two (CD10+) B-ALL
- Epidemiology** sex ratio: 5 male and 5 female patients; CLL cases were aged 10, 15, 58, 59, and 62 yrs; ALL cases were 2, 4, and 5 yr old children
- Prognosis** 5 CLL cases were dead after 27-49 mths survival; the 3 ALL cases were alive at 29+-34+ mths of follow up

### Cytogenetics

**Cytogenetics** sole anomaly in 2 of 8 documented cases; often found in complex Morphological karyotypes; no recurrent accompanying anomaly so far.

### Genes involved and Proteins

**Gene Name** [BCL11A](#)

**Location** 2p13-15

**Protein** 6 Kruppel C2H2 zinc fingers, a prolin rich domain, and an acidic domain

**Gene Name** [IgH](#)

**Location** 14q32

### External links

**Other database** [t\(2;14\)\(p13;q32\)](#) [Mitelman database \(CGAP - NCBI\)](#)

**Other database** [t\(2;14\)\(p13;q32\)](#) [CancerChromosomes \(NCBI\)](#)

### Bibliography

**A 14;19 translocation in B-cell chronic lymphocytic leukemia : a new recurring chromosome aberration.**

Ueshima Y, Bird ML, Vardiman JW, Rowley JD.  
Int J Cancer 1985; 36: 287-290.

**Nonrandom rearrangement of chromosome 14 at band q32.33 in human**

**lymphoid malignancies with mature B-cell phenotype.**

Nishida K, Taniwaki M, Misawa S, Abe T.  
Cancer research 1989; 49: 1275-1281.

**Immunophenotype-karyotype associations in human acute lymphoblastic leukemia.**

Uckun FM, Gajl-Peczalska KJ, Provisor AJ, Heerema NA.  
Blood 1989; 73(1): 271-280.

**Childhood chronic lymphocytic leukemia with t(2;14) translocation.**

Yoffe G, Howard-Peebles PN, Smith RG, Tucker PW, Buchanan GR.  
Journal of pediatrics 1990; 116 (1): 114-117

**t(2;14)(p13;q32) : A recurring abnormality in lymphocytic leukemia.**

Watson MS, Land VJ, Carroll AJ, Pullen J, Borowitz MJ, Link MP, Amylon M, Behm FG.  
Cancer Genet Cytogenet 1992; 58: 121-124.

**In B-cell chronic lymphocytic leukaemia chromosome 17 abnormalities and not trisomy 12 are the single most important cytogenetic abnormalities for the prognosis : a cytogenetic and immunophenotypic study of 480 unselected newly diagnosed patients.**

Geisler CH, Philip P, Christensen BE, Hou-Jensen K, Pedersen NT, Jensen OM, Thorling K, Andersen E, Birgens HS, Drivsholm A, Ellegaard J, Larsen JK, Plesner T, Brown P, Andersen PK, Hansen MM.  
Leukemia research 1997; 21: 1011-1023.

**A plasma cell leukemia patient showing biallelic 14q translocations : t(2;14) and t(11;14).**

Sonoki T, Matsuzaki H, Satterwhite E, et Al.  
Acta Haematol. 1999; 101: 197-201.

**The BCLII gene family : involvement of BCLIIA in lymphoid malignancies.**

Satterwhite E, Sonoki T, Willis TG, Harder L, Nowak R, Arriola EL, Liu H, Price HP, Gesk S, Steinemann D, Schlegelberger B, Oscier DG, Siebert R, Tucker PW, Dyer MJS.  
Blood 2001; 98: 3413-3420.

**Contributor(s)**

Written 06-2002 Jean Loup Huret

**Citation**

*This paper should be referenced as such :*

**Huret JL** . t(2;14)(p13;q32). Atlas Genet Cytogenet Oncol Haematol. June 2002 .

URL :

<http://www.infobiogen.fr/services/chromcancer/Anomalies/t0214p13q32ID1231.html>

© *Atlas of Genetics and Cytogenetics in Oncology and Haematology*

---