

Leukaemia Section

Short Communication

t(1;14)(q21;q32) BCL9/IGH / t(1;22)(q21;q11)

Jean-Loup Huret

Genetics, Dept Medical Information, UMR 8125 CNRS, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France (JLH)

Published in Atlas Database: February 2004

Online updated version: <http://AtlasGeneticsOncology.org/Anomalies/t0114q21q32ID1319.html>

DOI: 10.4267/2042/38079

This work is licensed under a Creative Commons Attribution-Noncommercial-No Derivative Works 2.0 France Licence.
© 2004 Atlas of Genetics and Cytogenetics in Oncology and Haematology

Identity

Note

The 2 translocations t(1;14)(q21;q32) and t(1;22) are variants of each other. This t(1;14)(q21;q32) with BCL9 involvement is different from the t(1;14)(q21;q32) with FCGR2B involvement, from the t(1;14)(q21;q32) with MUC1 involvement and from the t(1;14)(q21;q32) with IRTA1 involvement.

Clinics and pathology

Disease

Acute lymphoblastic leukemia (ALL) and non Hodgkin lymphoma (NHL).

Epidemiology

A case of ALL in a 30 yr old male patient, a case of follicular NHL in a 57 yr old female patient, and a case of mantle cell lymphoma in a 87 yr old female patient.

Prognosis

Prognosis was poor in 2 cases.

Cytogenetics

Cytogenetics morphological

There was a t(14;18)(q32;q21) and a complex

karyotype in the follicular NHL case, and a t(11;14)(q13;q32) and a complex karyotype in the case of mantle cell lymphoma case.

Genes involved and proteins

BCL9

Location

1q21

Protein

Involved in Wnt signal transduction.

Immunoglobulin genes : IGH, IGL

Location

Located in 14q32 and 22q11 respectively.

References

Willis TG, Zalcborg IR, Coignet LJ, Wlodarska I, Stul M, Jadayel DM, Bastard C, Treleaven JG, Catovsky D, Silva ML, Dyer MJ. Molecular cloning of translocation t(1;14)(q21;q32) defines a novel gene (BCL9) at chromosome 1q21. *Blood*. 1998 Mar 15;91(6):1873-81

This article should be referenced as such:

Huret JL. t(1;14)(q21;q32) BCL9/IGH. *Atlas Genet Cytogenet Oncol Haematol*. 2004; 8(2):107.