**t(3;7)(q27;p12-13)**

Jean-Loup Huret

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

Published in Atlas Database: September 2005

Online updated version: http://AtlasGeneticsOncology.org/Anomalies/t0307q27p12ID2010.html

DOI: 10.4267/2042/38303

This work is licensed under a Creative Commons Attribution-Non-commercial-No Derivative Works 2.0 France Licence. © 2006 Atlas of Genetics and Cytogenetics in Oncology and Haematology

---

**Clinics and pathology**

**Disease**
Non Hodgkin lymphoma (NHL).

**Phenotype / cell stem origin**
2 cases of diffuse large B-cell lymphoma (DLBL) with BCL6/ZNFN1A1 involvement, 1 NHL with BCL6 involvement, 1 follicular, predominantly large cell B-NHL and one T-NHL without gene ascertainment.

**Epidemiology**
5 cases to date, aged 40-70 years, sex ration: 3M:1F.

**Prognosis**
The 2 patients with BCL6/ZNFN1A1 involvement died at 16 and 17 months after diagnosis.

**Cytogenetics**

**Additional anomalies**
del(6) in two cases, del(13q) in two cases, +16 in two cases, +12 in one case.

**Genes involved and Proteins**

**BCL6**
- **Location:** 3q27
- **Protein**
  Transcription factor; belongs to the Krüppel family, with a N-term BTB/POZ domain and 6 zinc fingers; transcription repressor.

**ZNFN1A1 (Ikaros)**
- **Location:** 7p12
  - **Protein**
    Transcription regulator; can repress transcription through the recruitment of histone deacetylase complexes; role in conjunction with Aiolos; hemopoietic-specific zinc finger protein regulator of B and T-cell differentiation.

**Results of the chromosomal anomaly**

**Hybrid gene**
5’ Ikaros - 3’ BCL6 fusion transcript; it is supposed that substitution of the promoter of BCL6 may be responsible for BCL6 deregulation.

**References**


This article should be referenced as such: