**Leukaemia Section**

**Short Communication**

(t3;4)(q27;p13)

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### Clinics and pathology

**Disease**

NHL

**Phenotype / cell stem origin**

Follicular centrocytic-centroblastic lymphoma.

**Epidemiology**

Only four cases available to date; all four patients were female; median age: 57 yr.

### Cytogenetics

**Cytogenetics, morphological**

In all 4 cases, t(14;18)(q32;q21) was present; t(3;4)(q27;p13) may therefore be a secondary event.

**Additional anomalies**

Deletion of 6q was also found in all 4 cases, either as a del(6q) or as a iso(6p); karyotypes were complex.

### Genes involved and Proteins

**BCL6**

Location: 3q27

DNA / RNA

10 exons.

Protein

Nuclear protein; contains 6 zinc fingers (C2H2 type); transcription factor.

**RHOH**

Location: 4p13

Protein

Expressed in hemopoietic tissues; GTPase of the Ras superfamily; signal transduction.

### Results of the chromosomal anomaly

**Hybrid gene**

Description

5' RHOH - 3' BCL6 and 5' BCL6 - 3' RHOH, leading to two fusion transcripts.

**Fusion protein**

Description

No fusion protein, but promoter exchange between both partner genes.

### References


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