t(1;5)(p32;q31)

Jean-Loup Huret

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

Clinics and pathology

**Disease**

T cell acute lymphocytic leukaemia (T-ALL).

**Clinics**

Yet poorly known: only 1 case: a young adult male patient with high WBC (common features in T-ALL); bone marrow transplantation; complete remission: 43 mths +.

**Genes involved and proteins**

**TAL1**

- **Location**
  - 1p32
- **DNA/RNA**
  - Complex alternate splicing.
- **Protein**
  - Contains a basic Helix-Loop-Helix (DNA binding) domain; forms heterodimers; transcription factor; role in haematopoietic cell differentiation.

**Yet unknown gene**

- **Location**
  - 5q31

Result of the chromosomal anomaly

**Hybrid gene**

- **Description**
  - Breakpoint on TAL1 was found 10 kb upstream the gene, as was found in the cases of t(1;3)(p32;p21), while it is more 3', within the gene, in the t(1;14)(p32;q11) and in TAL1 deletions.

**Fusion protein**

- **Expression / Localisation**
  - High nuclear expression.

References


This article should be referenced as such: