Leukaemia Section
Short Communication

t(3;11)(q29;p15)
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Identity

Complex translocation t(3;11)(q29;p15)del(3)(q29). A: Red arrow indicates der(3); green arrow indicates der(11). The chromosomes displaying only red color or green color (yellow arrows) are normal chromosomes 11 and 3, respectively. Insert: Representative partial karyotype showing t(3:11).

Clinics and pathology

Disease
Bi-phenotypic acute T-lymphoid/myeloid leukemia

Phenotype/cell stem origin
Only one case available; BM showed 82.5% blast cells mostly with myeloid features. Immuno-phenotype: CD34+ cells count 35.6%, CD13+ 25.9%, CD33+ 85.4%, MPO+ 20.6% and CD3+ 65.9%, CD7+ 96.5%.
**Clinics**

Only one case available; the patient was a 42-year-old female at diagnosis. After the chemotherapy with vincristine, cytarabine and mitoxantrone, she achieved complete remission (CR), but relapsed after 4 months, and died from intracranial hemorrhage at the 22nd months.

**Prognosis**

The prognostic implication of t(3;11)(q29;q13;p15) del(3)(q29) remains to be defined.

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**Additional anomalies**

+21

**Genes involved and proteins**

**NUP98**

*Location*

11p15.5

*Protein*

Nucleoporin 98, a 98 kDa component of the nuclear pore complex, which mediates nucleo-cytoplasmic transport of protein and RNA.

**IQCG (IQ motif containing G)**

*Location*

3q29

*Protein*

443 amino acids.

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**Result of the chromosomal anomaly**

**Hybrid gene**

*Description*

5' NUP98 - 3' IQCG; Molecular analysis showed that exon 13 of NUP98 is fused in-frame to exon 10 of IQCG.

**Fusion protein**

*Description*

It fuses the GLFG repeat domains of NUP98 to one coiled-coil domain and IQ motif of IQCG.

**Expression / Localisation**

Nuclear localization.

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**References**


*This article should be referenced as such:*