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Leukaemia Section
Mini Review

der(9;18)(p10;q10)

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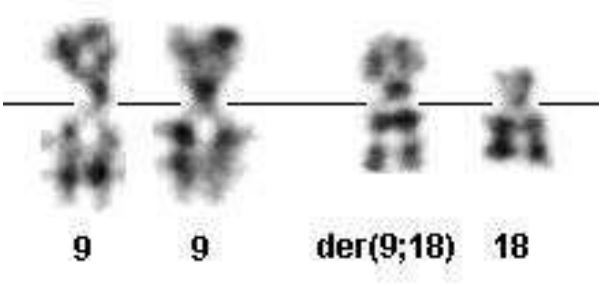
Identity



+9,der(9;18)(p10;q10) (G-banding).

Clinics and pathology

Disease

BCR-ABL negative chronic myeloproliferative disorders (CMPD).

Epidemiology

Occasional occurrence: 5 cases of polycythemia vera (PV) and one case of therapy associated AML (t-AML) after ET were reported so far.

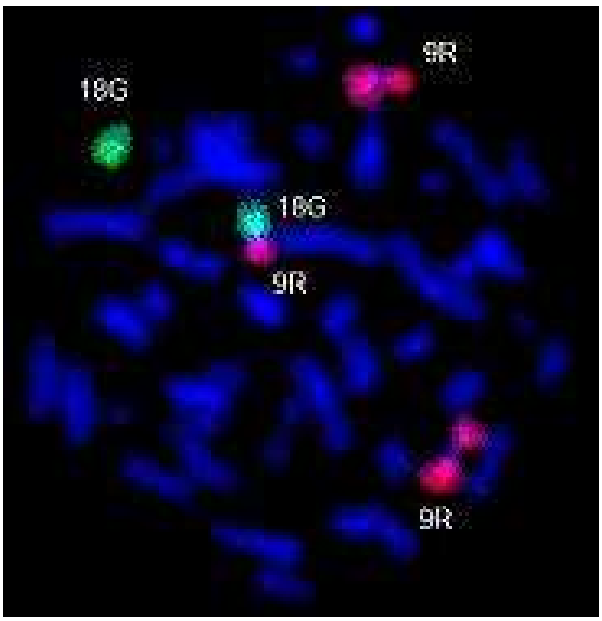
Clinics

2/5 PV cases showed conversion of PV to post-polycythemic myelofibrosis.

Prognosis

Probably associated with progression or leukemic transformation of the CMPD.

Cytogenetics



+9,der(9;18)(p10;q10) (chromosome painting, WCP#9 (red) + WCP#18 (green)).

Cytogenetics morphological

Unbalanced translocation between chromosomes 9 and 18 leading to trisomy of 9p and monosomy of 18p.

Additional anomalies

Sole abnormality in most cases; balanced translocations or complex aberrant karyotypes were reported as additional abnormalities.

Genes involved and Proteins

Note: Genes involved are unknown. Gain of 9p might play a role for gain of function of the JAK2 gene on 9p24 which codes for the JAK2 nonreceptor kinase.

References

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