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Detection of chromosomal breakpoints in B-cell neoplasia by interphase fluorescence in situ hybridization on routine paraffin sections

E.Haralambieva, 28 september, 2005

1. Both biological and practical considerations favor fluorescence *in situ* hybridization (FISH) as the preferable technique for targeted detection of translocations in mature B cell lymphomas (this thesis).
2. The application of FISH on routinely processed paraffin tissue samples represents a considerable advance in the application of molecular biology in clinical pathology (this thesis).
3. Chromosomal breakpoints in *MYC* gene are highly associated with Burkitt lymphoma, however they are not a disease specific marker (this thesis).
4. In adult patients, B cell lymphomas with Burkitt-like morphology may often represent transformed NHL (this thesis).
5. Cyclin D1deregulation is an essential oncogenic event in multiple myeloma patients that is triggered by t(11;14)(q13;q32), but also by a yet unknown mechanism often associated with chromosome 11 trisomy (this thesis).
6. Deregulation of essential oncogenes often represents a functional endpoint of various genetic lesions (development).
7. Chromosomal translocations are a hallmark of most B cell lymphomas, however additional genetic and epigenetic events are indispensable in lymphomagenesis (development).
8. I have never let my schooling interfere with my education. Mark Twain
9. No one can make you feel inferior without your consent. Eleanor Roosevelt
10. Life shrinks or expands in proportion to one's courage. Anais Nin
11. All my life I wanted to be something - now I see that I should have been more specific...

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