

ABSTRACT

Tatiana Labudová: Genetic changes in neuroectodermal tumours detected by molecular biological methods.

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This thesis is concerned to neuroectodermal tumours that make a major group of infant tumour diseases. Genetic material gained from patients with neuroectodermal tumours was examined using comparative genomic hybridization (CGH) and interphasic fluorescence in situ hybridization (I-FISH). The aim of this Thesis is to prove chromosomal changes and to create the whole genetic profile. According to these profiles can be determined tumourgenetic cascade or specific genetic changes that lead to malignant tumours. In some cases (f.e. neuroblastoms) the genetic profile helps us to determine a subtype of disease and it's biological behaviour.

Keywords: tumour diseases, neuroblastoma, CNS tumours, pheochromocytoma, Ewing's sarcoma, neuroectodermal tumour, comparative genomic hybridization, interphase fluorescence in situ hybridization