

人体低分化鼻咽癌上皮样细胞株CNE-2的细胞遗传学研究

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摘要 采用染色体显带方法对我国首次建成的低分化鼻咽癌上皮细胞株进行了细胞遗传学研究。细胞株的染色体数变异在87—107之间, 众数为104—103。所有细胞均有为数众多的结构异常的染色体, 且其中恒定的或反复出现的占绝大多数, 在这些异常染色体中, 有两个巨大的亚中着丝点染色体, 其结构与以往见于类淋巴细胞株者不同; 另三个标记染色体iso8q, t(?;3q)及一个较小的近端着丝点染色体与先前见于高分化鼻咽癌上皮细胞株者相同。结合研究结果, 讨论了鼻咽癌的特异性标记染色体问题。

关键词

分类号

Cytogenetic Studies of an Epithelial Cell Line Derived from a Poorly Differentiated Nasopharyngeal Carcinoma

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Abstract

Nasopharyngeal carcinoma (NPC), an epithelial cancer of high incidence in South China and some African areas, is of great interest for its close association with EB virus and for the genetic predisposition to it in some ethnic populations. Recently and epithelial cell line (CNE-2) has been established from a poorly differentiated nasopharyngeal carcinoma which represents the first of the kind.

Cytogenetic analysis of the CNE-2 line was carried out by chromosome banding technique. It was found that the chromosome number of the CNE-2 cells varied from 87 to 107 and the modal number was 104—103. All cells contained a series of structurally abnormal chromosomes and most of them were either consistent or frequently found. Among these chromosomes there were two giant markers which, by banding pattern analysis, proved to be different from the so-called giant A marker previously found in many lymphoblastoid cell lines of NPC.

Comparison between CNE-2 and CNE, another epithelial cell line which was established from well differentiated NPC, indicated that while they were quite different in many cytogenetic respects they had three chromosome markers in common, namely, an iso 8q, at (?;3q) and a small acrocentric one. With finding of these and the giant markers mentioned above the problem whether there exists a chromosome marker specific for NPC was discussed.

Key words

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