

技术与方法

非综合征耳聋大家系永生细胞系的建立及几种EB病毒转化外周血淋巴细胞建系方法的探讨

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摘要 永久保存珍贵的家系材料, 是对该家系进行深入研究的基础, 为此采用EB病毒 (Epstein-Barr virus, EBV) 转化淋巴细胞的方法对中国江苏淮阴地区非综合征耳聋大家系行建系工作。该家系患者呈典型的母系遗传特征, 且研究发现患者中均具有线粒体DNA 12s RNA A1555G突变, 是迄今世界上最大的非综合征耳聋家系之一, 在该家系的建系过程中 使用了4种不同的方法。建系结果分别为: 微量全血法1株, 冻存全血法1株, 冻存白细胞法14株及环孢霉素A (CyA) 法36株, 共计52株。本文就建系工作及这四种转化方法作一简单探讨。

关键词 [EB病毒](#); [永生细胞系](#); [非综合征耳聋](#)

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Establishment of Immortal Lymphoblastoid Cell Lines of Non-syndromic Deafness Family and Several Methods for Transforming Human B Lymphocyte by EB virus

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Abstract

Reservation of rare family materials is the base for us to do further research. Family of Jiang-Su Huai-Yin is one of the biggest non-syndromic deafness families in the world. In this family, deafness is maternally inherited and all the sufferers have the mitochondrial DNA 12s RNA A1555G mutation. Four methods are used in the experiments for establishing immortal lymphoblastoid cell lines of the family with non-syndromic deafness. Results were as follows: 1 cell line was from small amount of whole blood method, 1 cell line from frozen whole blood method, 14 cell lines from frozen leukocyte method, and 36 cell lines from cyclosporin A method. In this paper, we will discuss these four methods through our experiments of establishing cell lines.

Key words [EB virus](#) [immortal lymphoblastoid cell lines](#) [non-syndromic deafness](#)

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