

## 宫颈癌患者外周血树突状细胞的体外扩增和鉴定

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### Proliferation and Identification of the Dendritic Cells from the Peripheral Blood of Patients with Cervical Cancer

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#### 摘要

目的 探索体外扩增宫颈癌患者外周血来源的成熟树突状细胞(dendritic cell, DC)的方法,并鉴定DC的形态、结构、表型及生物学活性。方法 淋巴细胞分离液分离宫颈癌患者外周血,得到DC前体细胞(PBMC),以(3M-CSF、IL-4、TNF- $\alpha$ )诱导培养。用光镜和透射电镜观察形态结构,流式细胞仪检测细胞表面特异性分子,MTT法测定DC刺激T细胞增殖的活性。结果 联合应用细胞因子可诱导扩增出源自宫颈癌患者外周血的成熟DC,具有典型形态特征,较高表达HLA-DR、CD1a、CD80,能强烈激发同种异体T细胞增殖反应。结论 宫颈癌患者外周血体外培养可成功获得成熟的DC,为开展宫颈癌临床免疫治疗奠定了基础。

关键词: 宫颈肿瘤 树突状细胞 外周血 细胞因子

Abstract: Objective To culture and proliferate dendritic cells from the peripheral blood of patients with cervical cancer, to observe the morphologic, phenotypic characteristics of these cells and its potentiality to stimulate the proliferation of allo-T lymphocytes. Methods Monocytes were isolated from the peripheral blood of patients and cultured with the cytokines (GM-CSF, IL-4, TNF- $\alpha$ ). The morphologic characteristics of those cells were observed with optics and electron microscopes and the phenotypic figures were analyzed with FACS. The proliferating activity of T lymphocytes was determined by MTT in vitro. Results Large amount of mature DCs could be obtained from the peripheral blood of patients with cervical cancer. DCs expressed high level of HLA-DR, CD1a, CD80, and were potent to stimulate the proliferation of allo-T cells. Conclusion The mature dendritic cells could be obtained by culturing the peripheral blood of patients with cervical cancer, which set up the further foundation for clinical biotherapy of cervical cancer.

Key words: Cervical cancer Dendritic cell Peripheral blood Cytokines

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