

论著

G-CSF 动员的外周血干细胞悬液冷冻保存后诱导培养树突状细胞的研究

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收稿日期 2004-3-8 修回日期 2004-5-24 网络版发布日期 2009-11-7 接受日期 2004-5-24

摘要 目的: 研究粒细胞集落刺激因子(G-CSF)动员的外周血干细胞(PBSC)悬液中单个核细胞(MNC)冷冻保存后经不同诱导途径培养的树突状细胞(DC)的特性, 探讨PBSC悬液冷冻保存后诱导培养DC的方法。方法: 用两种保护液-80℃冷冻保存PBSC悬液, 分析复苏MNC中CD34+细胞、CD14+细胞、CD14+PI+细胞, 并分两种方法诱导培养复苏MNC: 贴壁细胞经粒细胞单核细胞集落刺激因子(GM-CSF)、白细胞介素4(IL-4)培养2周, 培养结束前加入肿瘤坏死因子α(TNF-α)、布雷菲德菌素(BFA); 非贴壁细胞经酪氨酸激酶3配体(FL)、干细胞因子(SCF)、GM-CSF、IL-4培养1周, 再按前1种方法继续培养2周。培养结束后, 流式细胞仪分析DC特性。结果: 两组复苏MNC与新鲜MNC比较: CD34+细胞含量均无明显差异(P>0.05); 而CD14+细胞少, CD14+PI+细胞百分率高(P<0.01); 贴壁细胞少, 贴壁细胞诱导培养DC效果不佳; 非贴壁细胞扩增诱导均能获得大量成熟的激活的能够分泌IL-12(p40)的髓系DC。结论: PBSC悬液冷冻保存后能用于培养髓系DC, 但培养方法应以扩增诱导为主。

关键词 [干细胞](#); [树突细胞](#); [免疫疗法](#); [粒细胞集落刺激因子](#)

分类号 [R363](#)

Dendritic cells induced from culture of cryopreserved G-CSF-mobilized peripheral blood stem cell harvests

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Abstract

AIM: To find the way of culturing the dendritic cells(DC) from the cryopreserved G-CSF-mobilized peripheral blood stem cell(PBSC) harvests. METHODS: The non-adherent or adherent cells from the fresh or refreshed PBSC harvests were induced to DCs separately. The amount of CD34+ cells, CD14+PI+ cells in the PBSC harvests and the characters of DCs were analyzed by flow cytometry. RESULTS: The DCs cultured from the non-adherent cells were similar to those from the fresh groups in the number and the characters. The amount of CD34+ cells was also similar between them, but CD14+PI+ cells were higher in the refreshed groups than that in the fresh groups. The adherent cells from the refreshed group were too few to be induced to DCs. CONCLUSION: The refreshed PBSC harvests could be induced to the matured activated myloid DCs cultured by the routine of CD34+ cells rather than by the way of monocytes.

Key words [Stem cells](#) [Dendritic cells](#) [Immunotherapy](#) [Granulocyte colony-stimulating factor](#)

DOI: 1000-4718

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