

论著

从G-CSF动员的外周血细胞悬液培养的成纤维细胞样细胞的特性分析

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收稿日期 2004-12-8 修回日期 2005-2-25 网络版发布日期 2009-11-25 接受日期 2005-2-25

摘要 目的: 研究从G-CSF动员的外周血细胞(PBC)悬液培养的成纤维细胞样(F-L)细胞的特性。方法: 取PBC中贴壁细胞分4组培养: ①RPMI-1640组; ②L-DMEM组; ③粒细胞集落刺激因子(G-CSF)组; ④白细胞介素-3(IL-3)组。流式细胞仪分析各组培养的F-L细胞特性。结果: 培养2-3周后, 4组均能收获到F-L细胞, 细胞贴壁生长, 但不融合, 不能连续传代培养, ③④组细胞数量明显多于①②组, 4组F-L细胞表型相似: CD33+, CD11c+, CD64+, CD14+, CD45+, HLA-DR+, CD86+, CD34-, CD38-, CD3-, CD19-, CD56-, CD29-, CD44-, CD105-; 与单核细胞(PB-M)表型差异仅CD38表达不同而与间质干细胞(MSC)或树突状细胞(DC)表型明显不同。结论: 从PBC培养的F-L细胞为巨噬细胞, 不是MSC或DC; G-CSF、IL-3能提高F-L细胞培养数量, 不改变PB-M向巨噬细胞分化的分化方向。

关键词 [树突细胞](#); [间质干细胞](#); [单核细胞](#); [成纤维样细胞](#); [巨噬细胞](#)

分类号 [R392.12](#)

Characters of the fibroblast-like cells cultured from the mobilized peripheral blood cells

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Abstract

AIM: To explore the characters of fibroblast-like (F-L) cells cultured from granulocyte colony stimulating factor (G-CSF)-mobilized peripheral blood cell (PBC) harvests. METHODS: The adherent cells in the PBC harvests were cultured for 2 week in the mediums of RPMI-1640/L-DMEM/G-CSF or interleukin-3 (IL-3) plus RPMI-1640, the cultured F-L cells were analyzed by flow cytometry (FC). RESULTS: The adherent non-confluent F-L cells obtained from the four groups were similar in their phenotypes: CD33+, CD11c+, CD64+, CD14+, CD45+, HLA-DR+, CD86+, CD34-, CD38-, CD3-, CD19-, CD56-, CD29-, CD44-, CD105-. The F-L cells are similar to monocytes except CD38- and were distinct from dendritic cells (DC) or mesenchymal stem cells (MSC). CONCLUSION: The cultured F-L cells are macrophages rather than DC or MSC. G-CSF, rhIL-3 enhances their numbers.

Key words [Dendritic cells](#) [Mesenchymal stem cells](#) [Monocytes](#) [Fibroblast-like cells](#) [Macrophages](#)

DOI: 1000-4718

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