#### 论著

# CD4OL-PLL-CpG寡核苷酸交联复合物的制备及其对B淋巴细胞的靶向 ▶ Supporting info

蒋建伟<sup>1</sup>,郑梅珍<sup>1</sup>,曾慧兰<sup>2</sup>,曾耀英<sup>3</sup>,狄静芳<sup>3</sup>,严玉霞<sup>1</sup>,吴美玉<sup>1</sup> 暨南大学1医学院生化教研室,2第一附属医院血液科,3组织移植与免疫研究中心, 广东 广州 510632

收稿日期 2003-10-21 修回日期 2004-1-5 网络版发布日期 2009-9-23 接受日期 2004-1-5

目的:探讨CpG寡核苷酸(CpG ODN)对B淋巴细胞的靶向性及免疫增强效应。方法: 制备CD40配体 (CD40L)-多聚左旋赖氨酸(PLL)-CpG ODN交联复合物。复合物与脐血单个核细胞(MNCs)共培养,流式细胞仪 检测MNCs对羧基荧光素FAM标记CpG ODN的摄取率、淋巴细胞亚群的表达; MTT法测MNCs增殖情况; ELISA法测培养上清IgG水平。结果:与CpG ODN相比,MNCs对CD40L-PLL-CpG ODN交联复合物摄取率更 ▶ Email Alert 高(>98%),达摄取峰值时间更早,细胞内荧光强度维持更稳定; MNCs与之共培养后CD19+、CD22+、 CD20+细胞表达明显升高,MTT法测MNCs增殖情况、ELISA法测培养上清IgG水平均明显升高。结论: CD40L-PLL载体系统能将CpG ODN靶向作用于B细胞,增强其免疫效应。

CD40配体; 寡核苷酸类; 交联复合物; B淋巴细胞; 靶向 分类号 R392.11

# Preparation of CD40L-PLL-CpG ODN conjugated complex and its targeting B lymphocytes

JIANG Jian-wei<sup>1</sup>, ZHENG Mei-zhen<sup>1</sup>, ZENG Hui-lan<sup>2</sup>, ZENG Yao-ying<sup>3</sup>, DI Jing-fang<sup>3</sup> YAN Yu-xia<sup>1</sup>, WU Mei-yu<sup>1</sup>

1Department of Biochemistry, Medical College, 2Department of Hematology, First Affiliated Hospital, 3Institute of Tissue Transplantation and Immunology, Jinan University, Guangzhou 510632, China

#### **Abstract**

<FONT face=Verdana>AIM: To explore the enhancement of CpG oligodeoxynucleotide (CpG ODN) delivery targeting to B lymphocytes and its immunologic efficacy. METHODS: CD40 ligand-PLL-CpG ODN conjugated complex was prepared. Mononuclear cells (MNCs) from umbilical cord blood were cultured with CD40 ligand-PLL-CpG ODN conjugated complex. Uptake rates of FAM labeled CD40 ligand-PLL-CpG ODN complex and subgroups of lymphocytes were analyzed by cytometry. Proliferation of MNCs as detected by MTT assay, and IgG levels of culture supernatants were measured by ELISA. RESULTS: Compared with CpG ODN group, uptake rates of CD40 ligand-PLL-CpG ODN by MNCs were higher (>98%), the peak level of uptake occurred earlier, intracellular fluorescence intensity maintained much more stable. Expressions of CD19+, CD22+, CD20+ increased significantly. A570 values of MNCs proliferation and IgG levels in supernatant were all higher. CONCLUSION: CD40 ligand-PLL carrier system may delivery CpG ODN targeting to B lymphocytes, enhancing its immunological efficiency. </FONT>

Key words CD40 ligand Oligonucleotides Conjugated complex B-lymphocytes Targeting

DOI: 1000-4718

#### 扩展功能

# 本文信息

- ▶ **PDF**(2033KB)
- ▶[HTML全文](0KB)
- ▶参考文献

### 服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶复制索引
- ▶文章反馈
- ▶浏览反馈信息

# 相关信息

▶ 本刊中 包含 "CD40配体; 寡核苷酸类; 交联复合物; B淋巴细胞; 靶向"的 相关文章

# ▶本文作者相关文章

- 蒋建伟
- 郑梅珍
- 曾慧兰
- 曾耀英
- 狄静芳
- 严玉霞
- 吴美玉