



国际口腔医学杂志 » 2010, Vol. 37 » Issue (02) :166-166~169 DOI: 10.3969/j.issn.1673-5749.2010.

综述

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Nel 样1 型分子对成骨细胞分化的分子调控机制

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Molecular regulation mechanism of Nel-like type 1 molecule to the osteoblast diff

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摘要

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摘要 Nel 样1 型分子 (Nell-1) 是一种新的重要的生长因子, 其基因主要在成骨细胞的分化和程序性死亡阶段发挥重要的作用。下面着重就nell-1 基因与转化生长因子和成纤维细胞生长因子, nell-1 基因在介导成骨细胞分化过程中的作用和相关分子信号途径, Nell-1 蛋白对成骨细胞和成软骨细胞外基质蛋白的调控作用等作一综述。

关键词: Nel 样1 型分子 成骨细胞 细胞分化 调控机制

Abstract: Nel-like type 1 molecule (Nell-1) is one of the novel growth factors with important biological function on the differentiation and apoptosis of osteoblasts. This review emphasized on the gene expression cascades between nell-1 and transforming growth factor or fibroblast growth factor, the signal regulation mechanisms and associated molecular signal pathways of nell-1 regulating the differentiation of osteoblasts. The effect of Nell-1 regulating the extracellular matrix (ECM) proteins that are necessary in osteogenesis and chondrogenesis has also been discussed.

Keywords:

Received 2009-05-18;

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引用本文:

周海华¹综述 李祖兵²审校, Nel 样1 型分子对成骨细胞分化的分子调控机制[J] 国际口腔医学杂志, 2010, V37(02): 166-166~169

ZHOU Haihua¹, LI Zu-bing². Molecular regulation mechanism of Nel-like type 1 molecule to the osteoblast diff[J] . 2010, V37(02): 166-166~169

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