

化学

Eprgdnyr修饰牛骨片的放射性示踪研究

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摘要 骨组织缺损治疗的重要手段是在支架材料上引入粘附蛋白(RGD八肽)和细胞生长因子等生物活性物质赋予材料表面成骨细胞增殖的条件。利用¹²⁵I-Eprgdnyr放射性示踪技术研究经紫外线辐照活化的牛骨片在化学偶联剂(EDC)作用下的Eprgdnyr偶联量。结果表明: Eprgdnyr偶联到牛骨片上的量与反应液中Eprgdnyr和EDC含量呈正相关。为利用放射性示踪技术进行骨重建支撑材料表面修饰研究提供依据。

关键词 [Eprgdnyr \(RGD八肽\)](#); [骨组织工程](#); [放射性示踪](#)

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Surface of Allogra on Bone-Cow of Eprgdnyr by Radioactive Tracing

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Abstract

Growth bone tissue engineering is one of the creative medical fields in reconstruction of bone defect. It can provide the surface of the material with condition of rich osteoblast multiplication through bioactive materials such as Eprgdnyr (RGD peptide) and cell factor introduced in frame material. A quantity measure of the degree that the pieces of calf bone activated by the radiation of the ultra-violet couple RGD peptide onto the pieces of calf bone under the function of the EDC was given by tracer technique ¹²⁵I-Eprgdnyr. The result shows that the amount that RGD peptide couples onto the bone pieces has positive correlation to that of Eprgdnyr and EDC, aimed at providing scientific basis for facial modification of bone reconstruct and support material.

Key words [Eprgdnyr \(RGD peptide\)](#) [bone tissue engineering](#) [radioactive tracing](#)

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