

论著

## 丁酰化壳聚糖膜对增殖细胞核抗原在兔眼滤过手术后成纤维细胞中的表达

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**摘要** 摘要:目的 探讨丁酰化壳聚糖膜应用于兔眼滤过性手术后,增殖细胞核抗原(PCNA)在成纤维细胞中的表达情况。方法 将24只兔分为两组,每组12只;第1组:右眼将丁酰化壳聚糖膜植入兔眼小梁切除术中板层巩膜瓣下,左眼行单纯小梁切除术。第2组:右眼小梁切除术中一次性使用丝裂霉素C(MMC),左眼不行手术为对照组。分别于手术后第1、4、12周处死兔子,免疫组织化学染色检测PCNA在成纤维细胞中的表达。结果 丁酰化壳聚糖膜和MMC组PCNA的表达均显著低于单纯小梁切除术组(P<0.001)。结论 丁酰化壳聚糖膜能下调兔眼滤过性手术后PCNA在成纤维细胞中的表达,有效抑制纤维组织增生、抗组织瘢痕形成。

**关键词** [丁酰化壳聚糖膜](#) [增殖细胞核抗原](#) [小梁切除术](#) [瘢痕](#) [青光眼](#)

分类号

## Effects of Butyrylchitosan on Expression of Proliferating Cell Nuclear Antigen in fibroblast Proliferation of Rabbit Eyes after Filtering Operation

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**Abstract** ABSTRACT:Objective To investigate the effect of butyrylchitosan on the expression of proliferating cell nuclear antigen (PCNA) in fibroblast proliferation of rabbit eyes after filtering operation. Methods Twenty-four New Zealand rabbits were randomly divided into 2 groups, with 12 rabbits in each group. Rabbits in one group received butyrylchitosan under scleral patch of trabeculectomy in right eyes and trabeculectomy in left eyes (trabeculectomy group). Rabbits in the other group received mitomycin C (MMC) in trabeculectomy in right eyes (MMC group) and without operation in left eyes. Rabbits were killed 1, 4, and 12 weeks after operations. Immunohistochemical staining was used to detected PCNA expression in fibroblast. Results After use of butyrylchitosan, the PCNA expression significantly decreased compared with trabeculectomy group (P<0.001). PCNA expression in MMC group was significantly lower than in trabeculectomy group (P<0.001). Conclusion Using butyrylchitosan under scleral patch of trabeculectomy decreases PCNA expression in proliferating cell and inhibits the scarring at filtering site.

**Key words** [butyrylchitosan](#) [proliferating cell nuclear antigen](#) [trabeculectomy](#) [scarring](#) [glaucoma](#)

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