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基础医学

自噬相关基因Beclin1在大鼠深II度烧伤皮肤中的表达

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摘要:

目的 观察自噬相关基因Beclin1在大鼠深II度烧伤皮肤中的表达, 初步探讨自噬与烧伤皮肤之间的关系。方法 16只雄性Wistar大鼠随机分为正常组(对照组)和烧伤组(实验组), 每组各8只。实验组建立深II度烧伤模型, 烧伤后分别于1、3、7d取材。组织学检查观察各组动物皮肤全层情况, 免疫组化检测Beclin1在各组动物皮肤的表达, 并行图像处理和统计学分析。结果 Beclin1基因在实验组表达阳性, 对照组表达阴性, 组间比较差异有统计学意义( $P<0.05$ )。结论 Beclin1基因在Wistar大鼠烧伤皮肤中的表达呈阳性, 推测自噬参与深II度烧伤皮肤的修复过程。

关键词: 自噬; 基因, Beclin1; 大鼠, Wistar; 烧伤

## Expression of autophagy-related gene Beclin1 on second-degree scald skin in rats

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Abstract:

Objective To observe expression of autophagy-related gene Beclin1 on second-degree scald tissues in rats, and to investigate the relationship of autophagy and scald tissues. Methods Sixteen Wistar rats were randomly divided into 2 groups: the normal group (the control group) and the scald group (the experimental group), 8 rats in each group. Second-degree scald models were established in experimental group, and scald tissues were obtained on day 1, 3 and 7 after scald. The rat skin in each group was evaluated by histologically examination. Expression of Beclin1 in each group was detected by the immunohistochemical technique and conducted by image processing techniques. Statistical analyses were performed. Results Expression of Beclin1 was positive in the experimental group, but negative in the control group ( $P<0.05$ ). Conclusion Expression of Beclin1 in the experimental group was significantly higher than that in the control group, and autophagy was speculated to participate repair process of second-degree scald.

Keywords: Autophagy; Gens, Beclin1; Rats, Wistar; Scald

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