

脂联素及其受体在正常和 I 型糖尿病小鼠视网膜中的表达 [\(点击查看pdf全文\)](#)

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Title: Expressions of adiponectin and its receptors in the retina of normal and type1diabetic mice

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关键词: 糖尿病视网膜病变; 糖尿病; 脂联素; 脂联素受体; 视网膜

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摘要: 摘要: 目的研究脂联素 (APN) 及其受体 (AdipoRs) 在正常和1型糖尿病 (T1DM) 小鼠视网膜中的表达。方法C57BL/6小鼠随机分为对照组和实验组, 通过链脲佐菌素腹腔注射, 建立T1DM小鼠模型。建模2月后, 分离出对照组和实验组小鼠的视网膜、脉络膜, 分别提取总蛋白和总RNA。采用BCA法和ELISA检测视网膜、脉络膜中总蛋白和APN浓度; 采用qPCR检测视网膜和脉络膜中APN受体mRNA表达水平; 采用Western blotting检测视网膜中AdipoRs的表达情况。结果APN及其受体在小鼠视网膜、脉络膜中呈现阳性表达; 与对照组相比, APN、AdipoR1在实验组小鼠视网膜中表达量上升, AdipoR2表达量无明显变化。结论APN、AdipoR1可能在 I 型糖尿病视网膜病变病理过程中起重要作用。

Abstract: ObjectiveTo investigate the expression of adiponectin and its receptors (AdipoRs) in the retina of normal mice and mice with type1 diabetes mellitus (T1DM).MethodsC57BL/6 mice were randomly divided into control group and streptozotocin-induced T1DM group. Two months after the modeling, the total protein and adiponectin protein expression in the retina and choroid were measured using BCA method and enzyme-linked immunosorbent assay, respectively. Quantitative RT-PCR was performed to detect the mRNA expressions of AdipoRs in the retina and choroid, and Western blotting was employed to examine the protein expressions of AdipoRs in the retina.ResultsAdiponectin and AdipoRs proteins were expressed in the retina and choroid in normal mice. The expressions of adiponectin and AdipoR1were up-regulated in the retina of mice with T1DM while AdipoR2expression exhibited no significant changes.ConclusionAdiponectin and AdipoR1 may play an important role in the evolvement of type1diabetic retinopathy.

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