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Name of Journal: *World Journal of Diabetes*

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Basic Study

Expression and role of piRNA in diabetic-retinopathy in mice

piRNAs in diabetic retinopathy

Yong Yu, Kai-Ming Ren, Xiao-Long Chen

Abstract

BACKGROUND

As one of the major microvascular complications of diabetes, diabetic retinopathy (DR) is the leading cause of blindness in working age population. Because the extremely complex pathogenesis of DR has not been fully clarified, the occurrence and development of DR is closely related to tissue ischemia and hypoxia and

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Aims/hypothesis: Although much is known about the pathophysiological processes contributing to diabetic retinopathy (DR), the **role** of protective pathways has received less attention. The transcription factor nuclear factor erythroid-2-related factor 2 (also known as NFE2L2 or NRF2) is an important regulator of oxidative stress and also has anti-inflammatory effects.

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NRF2 activation strongly increased NRF2 target gene **expression** and suppressed oxidant-induced reactive oxygen species. Diabetic **mice** exhibited retinal NRF2 activation, indicated by nuclear translocation. Superoxide levels were significantly increased by diabetes in Nrf2 knockout **mice** as compared with wild-type **mice**.

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