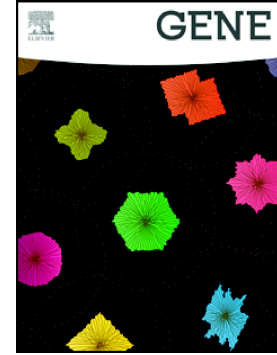


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**SIRT6 EXPRESSION AND OXIDATIVE DNA DAMAGE IN
INDIVIDUALS WITH PREDIABETES AND TYPE 2 DIABETES
MELLITUS**

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ABSTRACT

Sirtuins (SIRT6) is a family of NAD⁺ dependent histone deacetylases. SIRT6 takes part in glucose homeostasis, genomic stability and DNA repair. Although increased oxidative DNA damage and decreased DNA repair activity were determined in diabetes mellitus, the possible relation between level of oxidative DNA damage and SIRT6 expression has not been investigated so far. We determined SIRT6 expression and urinary 8-hydroxy deoxyguanosine (8-OHdG) levels, marker of oxidative DNA damage, in cases with prediabetes (PreDM) and type 2 diabetes mellitus (T2DM).

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