

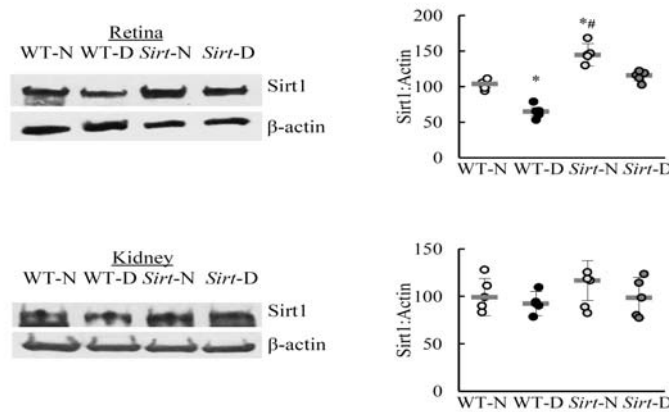
SUPPLEMENTARY DATA

**Supplementary Table S1.** Metabolic data

Group	BW (g)	Glucose (mg/dl)	GHb (%)	HDL (mg/dl)
WT-N	22.2±1.9	106.4±7.8	7.3±0.6	126.3±27.4
WT-D	24.6±2.2	410.8±112.6 *	11.9±0.9 *	87.4±20.4 *
<i>Sirt1</i> -N	27.9±3.9	104.8±8.1	8.2±0.6	140.8± 46.9
<i>Sirt1</i> -D	26.3±2.7	502.8±108.3 *	11.5±0.8 *	110.8±17.5

\*p<0.05 vs WT-N

**Supplementary Figure S1.** Sirt1 expression in the retina and kidney was quantified by western blot technique using  $\beta$ -actin as a loading control. WT-N and WT-D = C57BL/6J wildtype normal and diabetic mice respectively; *Sirt1*-N and *Sirt1*-D = *Sirt1* overexpressing normal and diabetic mice respectively. Values are represented as mean  $\pm$  SD from 4-6 mice/group, with each measurement made in duplicate; \*p<0.05 compared with age-matched WT-N and #p<0.05 with WT-D.



**Supplementary Figure S2.** Effect of diabetes on acetylation of Dnmt1. Dnmt1 acetylation was quantified by immunoprecipitating acetylated proteins from the retinal microvessels, followed by western blotting for Dnmt1. WT-N and WT-D = C57BL/6J wildtype normal and diabetic mice respectively; *Sirt1*-N and *Sirt1*-D = *Sirt1* overexpressing normal and diabetic mice respectively. Values are represented as mean  $\pm$  SD from 4 or more mice/group with each measurement made in duplicate.

