

Supplemental Figure 1

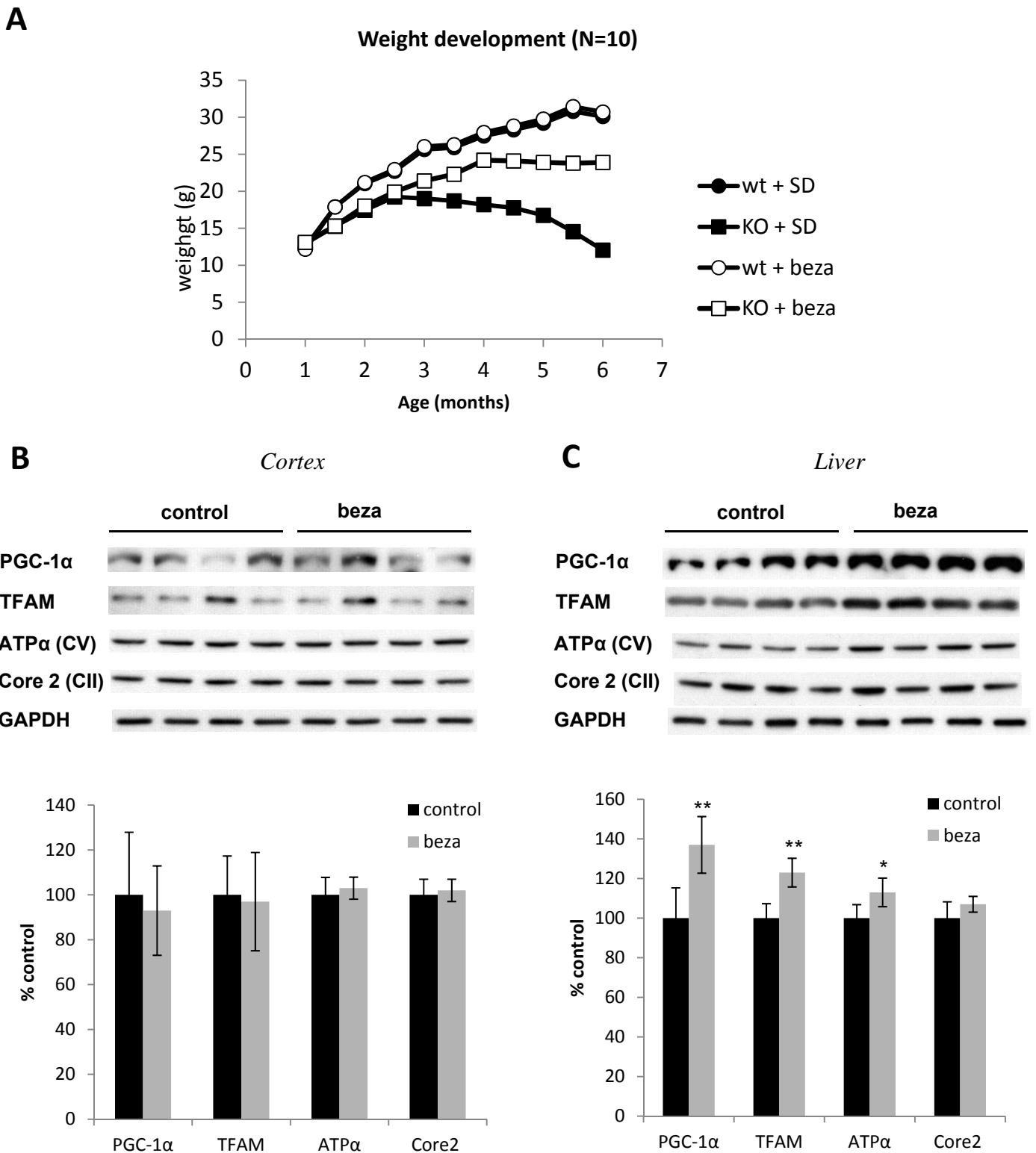


Figure S1: (A) Weight development of male wild-type and COX10 KO mice fed SD- or bezafibrate diet. (B+C) Western blot incl. densitometric analysis of cortex and liver of wild-type mice injected with bezafibrate (100 mg/g/d, 7 days). Control mice were injected with DMSO. Blots were probed for PGC-1 α , TFAM and OXPHOS subunits. GAPDH was used as a loading control. * $p < 0.05$, ** $p < 0.01$

Supplemental Figure 2

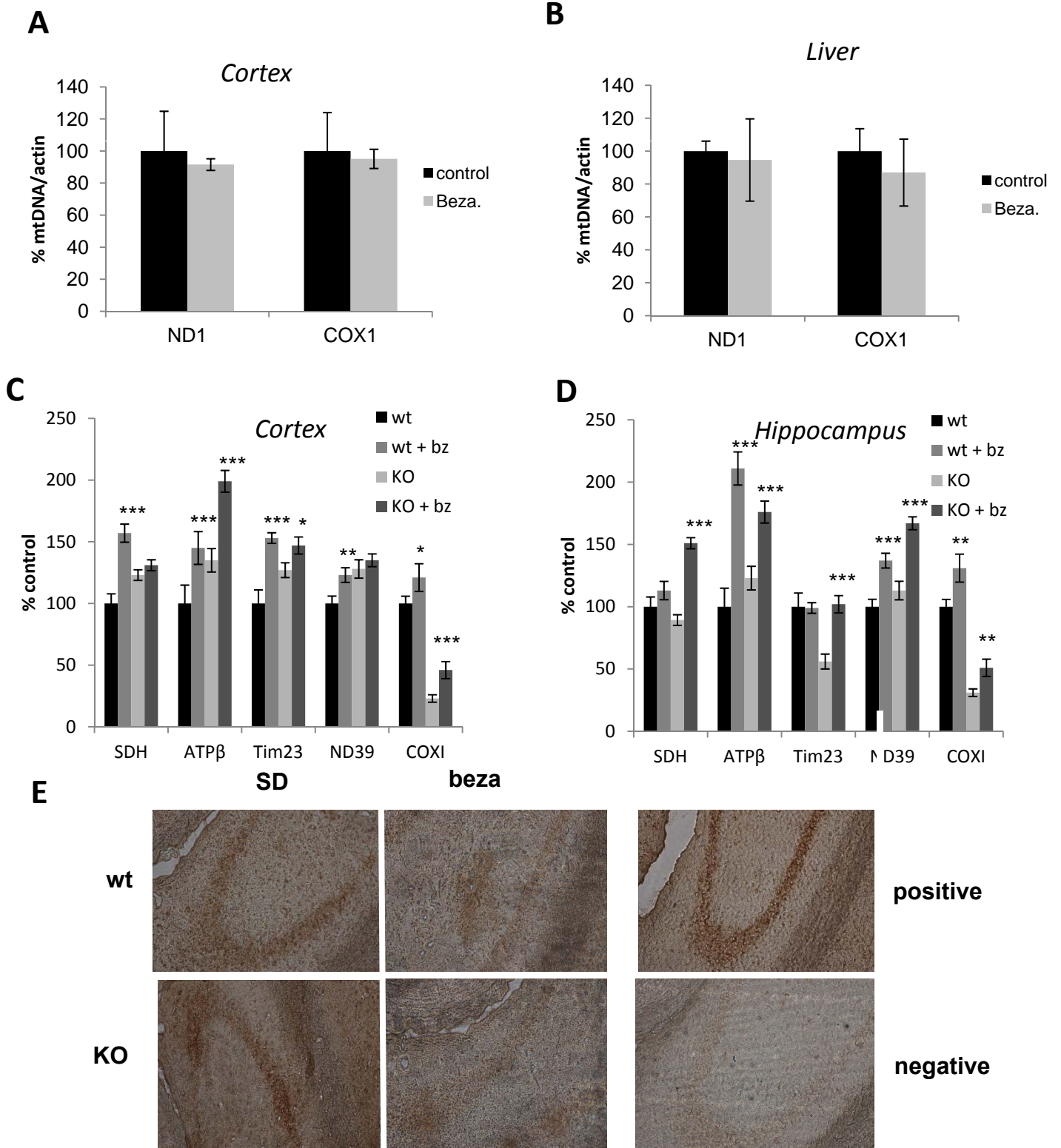


Figure S2: (A+B) mtDNA levels of cortex and liver samples of control mice treated with bezafibrate. Primers target for COX1 and ND1 were used for the quantification. (C+D) Densitometric analysis of western blots from Fig. 2E and F. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ (E) Immunohistochemistry of the hippocampus from 6 months old wild-type and COX10 KO animals on a standard or on a bezafibrate diet using anti-8-OH-Guanosine antibody. Positive control was incubated with H_2O_2 , negative control was incubated with RNaseA and DNase.

Supplemental Figure 3

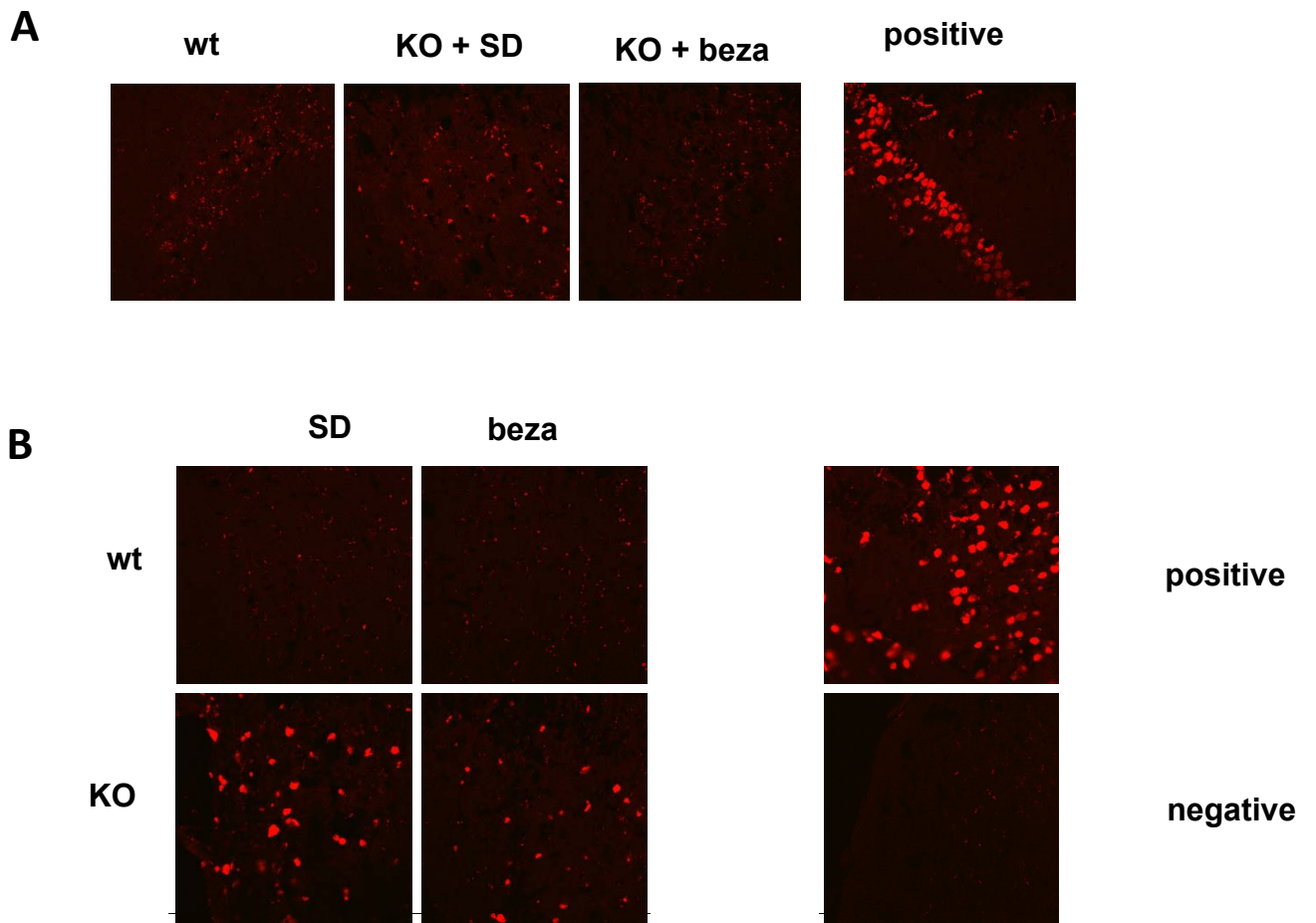


Figure S3: (A+B) TUNEL staining of the hippocampal CA3 region and cortex region from 6 months old wild-type and COX10 KO animals on a standard or on a bezafibrate diet.

Supplemental Figure 4

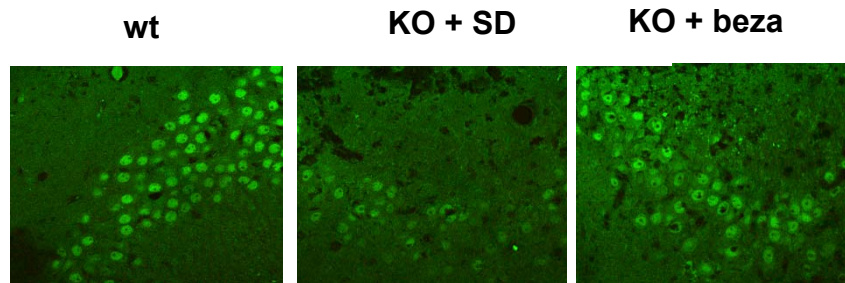


Figure S4: Immunohistochemistry of the hippocampal CA3 region from 6 months old wild-type and COX10 KO animals on a standard or on a bezafibrate diet using anti-NeuN antibody.