SUPPLEMANTAL FIGURES AND LEGENDS

Figure S1



Figure S1. Expression of mitochondrial OXPHOS complexes I and IV is diminished at various protein concentrations in the liver of TH mice. A) Quantitation of OXPHOS complex subunits NDUFB8 and NDUFS2 (complex I) and COI and COII (complex IV) at 5 μ g and 10 μ g (B) in the liver of TH and B6 mice, Western blots shown in Fig. 1A. Results are represented as mean \pm SD of at least three experiments and presented as a percentage of B6 mice. Statistical analyses were performed using the unpaired Student's *t*-test (2-tailed), *P < 0.05. See Figure 1 legend for details.

Figure S2



Figure S2. Mitochondrial OXPHOS complex expression in the liver of TH mice. A)

Quantitation of OXPHOS complex expression in the liver of TH and B6 mice, shown in Fig. 1B. Results are represented as the mean \pm SD of at least three experiments and presented as a percentage of B6 mice. The unpaired Student's *t*-test (2-tailed) was performed for statistical analysis, and no significant difference was observed in these OXPHOS subunits between the two mouse strains. **B**) Whole Western blots and the corresponding Ponceau S membrane stains for antibodies that show significant changes in the expression between TH and B6 mice. Protein bands for COI and COII are indicated by arrows. See Figure 1 legend for details.

Figure S3



Figure S3. Sample calculation for complex I and III enzymatic activity assays. A)

Absorbance values of cytochrome c reduction measured at 550 nm over six min. The values listed are from the control (without lysate), one TH, and one B6 mouse liver sample run two times each. The absorbance values for each mouse strain were averaged together and the percent difference was calculated. **B**) The plot represents the average TH and B6 absorbance values graphed against each time point. The time point used to calculate the percent difference is shown in the black box and bolded. **C**) The graph represents the mean \pm SD of the percent change at the third (3) timepoint between the TH and B6 mice. This process was repeated for each TH and B6 mouse sample in both the liver and the kidney, and each assay was run at least three times. The samples were normalized to the control without lysate per assay. This normalization and calculations were performed for both the liver and kidney tissues on every mouse sample for both complex I and III and complex IV activity assays.

Figure S4



Figure S4. Expression of mitochondrial OXPHOS complexes I and IV is diminished at various protein concentrations in TH mice kidney. A) Quantitation of OXPHOS complex subunits of complex I, NDUFB8 and NDUFS2, and complex IV, COI and COII, at 5 μ g and 10 μ g (B) in the kidney of TH and B6 mice, Western blots shown in Fig. 3A. Results are represented as mean \pm SD of at least three experiments and presented as a percentage of B6 mice. Statistical significance was measured by the unpaired Student's *t*-test (2-tailed), *P < 0.05. See Fig. 3 legend for details.

Figure S5



Figure S5. Expression of mitochondrial OXPHOS complexes in the kidney of TH mice. A) Quantitation of OXPHOS complex expression in the kidney of TH and B6 mice, shown in Fig. 3B. Results are represented as mean \pm SD of at least three experiments and are presented as a percentage of B6 mice. The unpaired Student's *t*-test (2-tailed) was performed for statistical analysis, and no significant difference was observed in these OXPHOS subunits between the two mouse strains. B) The full Western blots and their corresponding Ponceau S stained membranes are shown for each OXPHOS subunit with significant changes in expression. The arrows indicate the COI, COII, and NDUFS2 protein bands for the TH and B6 mice kidney samples. See Fig. 3 legend for details.