Supplemental Material

Pressure Overload-induced Cardiac Remodeling and Dysfunction in the Absence of Interleukin 6 in Mice

N. Chin Lai, Mei Hua Gao, Eric Tang, Ruoying Tang, Tracy Guo,
Nancy D. Dalton, Aihua Deng, Tong Tang

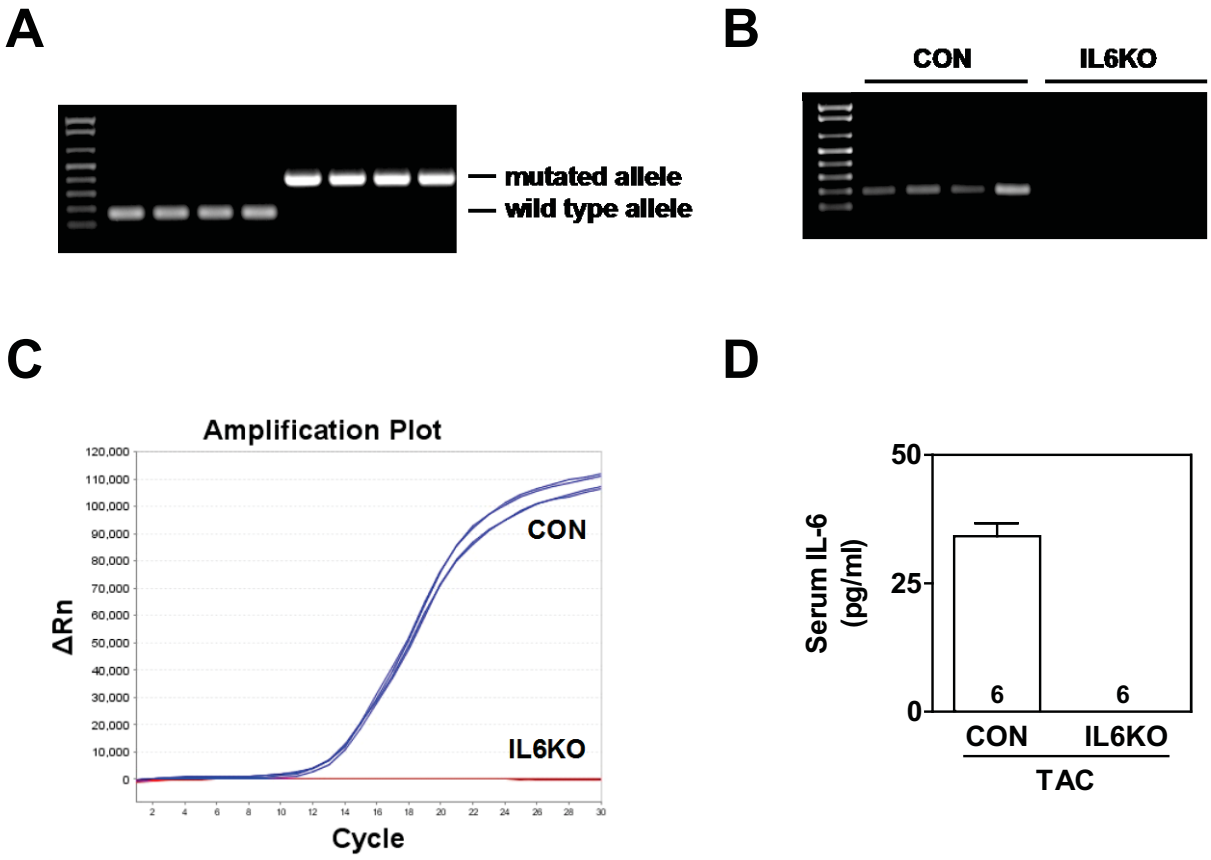

Figure S1. Confirmation of IL6 deficiency in IL6KO mice. (**A**) PCR analysis of tail genomic DNA shows mutated allele in IL6KO mice. (**B**) Agarose gel electrophoresis of RT-PCR reaction mix shows no IL-6 mRNA expression in LV samples from IL6KO mice. (**C**) Amplification plot from quantitative real-time RT-PCR shows no IL-6 mRNA expression in LV samples from IL6KO mice. (**D**) Pressure overload increased serum IL-6 levels in C57BL/6J mice to 34 pg/ml [serum IL-6 levels in normal C57BL/6J mice are below detection limit of the IL-6 ELISA kit (eBioscience, Inc., San Diego, CA)]. There is no detectable serum IL-6 in IL6KO mice 2 weeks after TAC. Error bars denote 1 SEM; numbers in bars indicate group size.

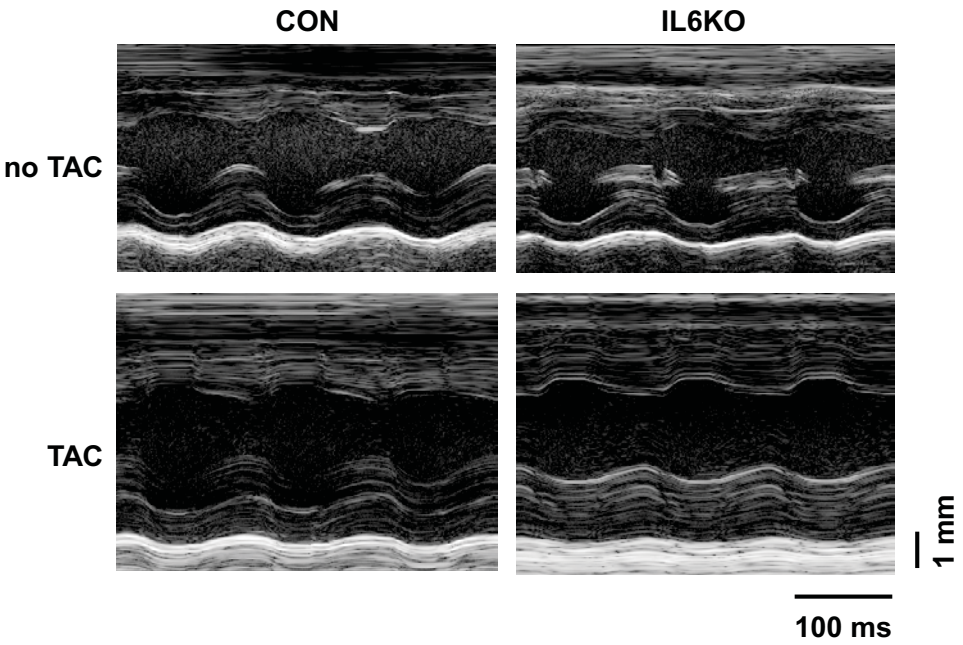

Figure S2. Representative echocardiograms of CON and IL6KO mice before and 2 weeks after pressure overload.

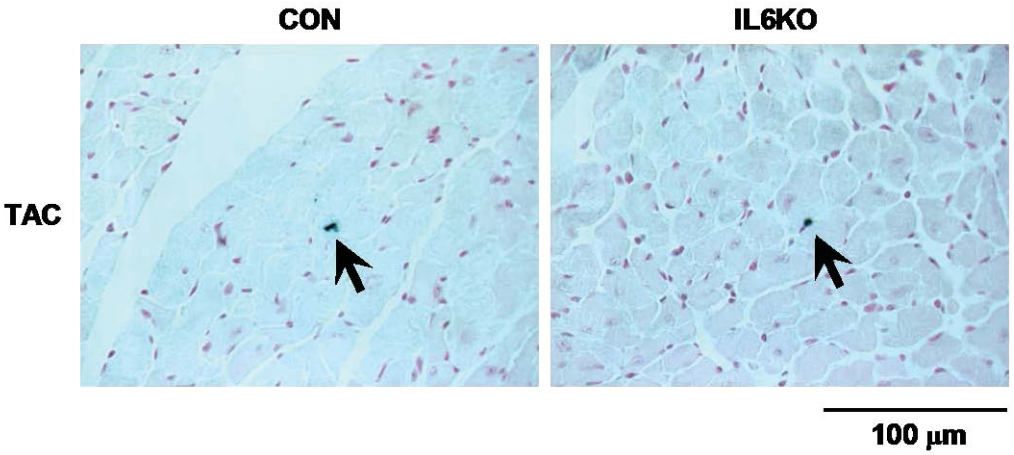

Figure S3. Representative photomicrographs showing TUNEL^{+} cells in LV samples from CON and IL6KO mice 2 weeks after pressure overload.

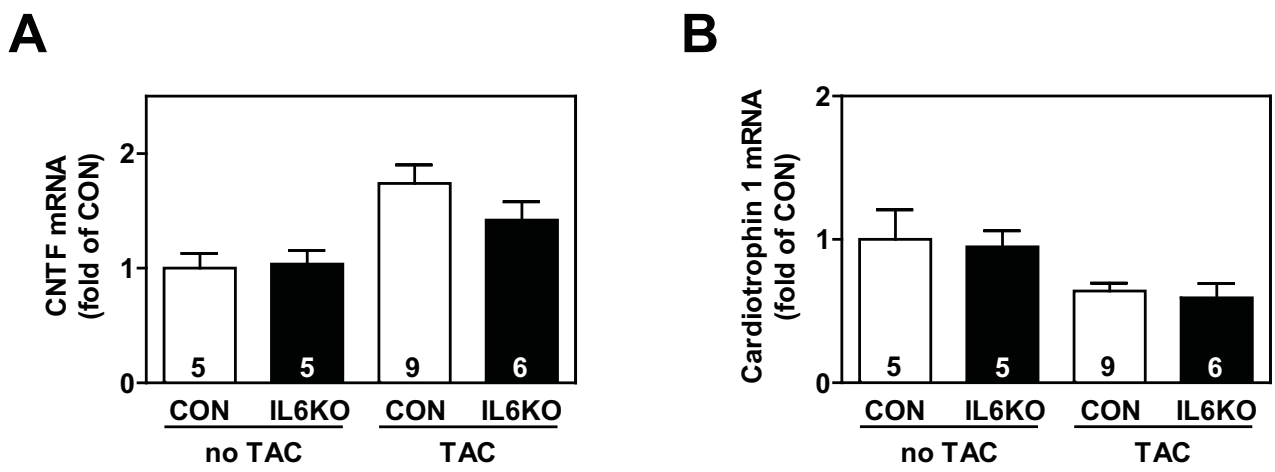

Figure S4. There was no group difference in mRNA content of ciliary neurotrophic factor (CNTF; *P*=0.20) (**A**), and cardiotrophin 1 (*P*=0.65) (**B**) in LV samples from CON and IL6KO mice 2 weeks after TAC. Probability values are from Bonferroni *post hoc* test (CON *vs* IL6KO, 2 weeks after TAC) after 2-way ANOVA. Error bars denote 1 SEM; numbers in bars indicate group size.