



SUPPLEMENTARY FIG. S4. Sildenafil treatment has no impact on mitochondrial ultrastructure. (A) Representative transmission electron micrograph of SSM ultrastructure and morphology in WT TA muscle. (B) Representative transmission electron micrograph of subsarcolemmal mitochondrial ultrastructure and morphology in $GC1^{-/-}$ TA muscle. SSM size, cristae alignment, and gross morphology were indistinguishable between WT and $GC1^{-/-}$ muscle. Data are representative of 20–30 micrographs from 4 WT and 3 $GC1^{-/-}$ TA muscles. (C) Representative transmission electron micrograph of IFM ultrastructure and morphology in WT TA muscle. (D) Representative transmission electron micrograph of IFM ultrastructure and morphology in $GC1^{-/-}$ TA muscle. IFM size, cristae alignment, and gross morphology were indistinguishable between WT and $GC1^{-/-}$ muscle. Data are representative of 30 micrographs from 4 WT and 3 $GC1^{-/-}$ TA muscles. Thus, increased cGMP has no impact on mitochondrial size or ultrastructure. IFM, intermyofibrillar mitochondria; SSM, subsarcolemmal mitochondria.