



**Figure S1. Organ weight differences between WT, SUR2<sup>wt/AV</sup> and SUR2<sup>AV/AV</sup> mice.** Increased organ weight is observed in heart, pectoral muscles, Tibialis anterior (TA), and Flexor digitorum brevis (FDB) of SUR2<sup>wt/AV</sup> and SUR2<sup>AV/AV</sup> mice respect to the control. Soleus (SOL) was found less heavy in these SUR2 mutated mice. Values are presented as mean  $\pm$  SEM (n. animal used for these evaluations: 4 animals per genotype); organ mean weights are normalized by the control mean. No differences were found in terms of weight among right and left muscles. GA, Gastrocnemius; EDL, Extensor digitorum longus. Data significantly different as evaluated with ONE WAY ANOVA and Bonferroni test (\* $p < 0.05$ ).