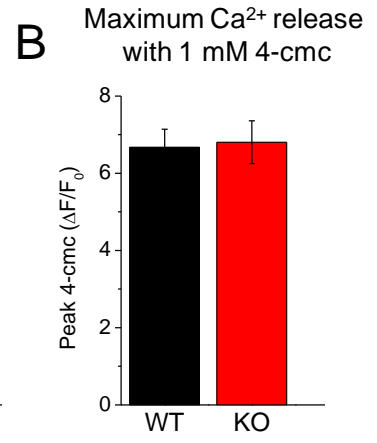
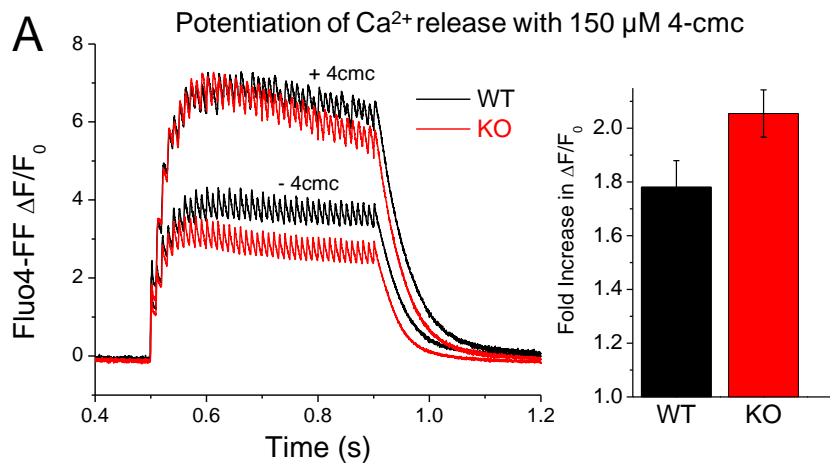


Supplementary Fig. 1



Supplementary Figure 1: Potentiation of SR Ca²⁺ release with 4-CmC. A, Left- Average Fluo4-FF responses of WT and S100A1 KO fibers to 400ms, 100 Hz train before and after potentiation of Ca²⁺ release with low dose (150 μ M) 4-cmc. Following sensitization of RyR1 with low dose 4-cmc application, KO fibers show a similar peak tetanic Ca²⁺ transient amplitude as WT fibers. Right- Fold increase in tetanic Ca²⁺ transient amplitude in the presence of 150 μ M 4-cmc (WT = 1.78 ± 0.1 , n = 7 fibers; KO = 2.05 ± 0.09 , n = 5 fibers; p = 0.1). B, Maximum $\Delta F/F_0$ Fluo4-FF signal following local application of 1mM 4-CmC on WT and KO fibers. This concentration was found to elicit a maximal response. Both groups demonstrated a similar maximal response to 4-CmC (WT 6.67 ± 0.47 , n = 10; KO 6.80 ± 0.55 , n = 13).