

Unbiased complexome profiling and global proteomics analysis reveals mitochondrial impairment and potential changes at the intercalated disk in presymptomatic R14^{Δ/+} mice hearts

Supplemental Methods and Materials

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Super-resolution confocal microscopy. Cardiomyocytes were isolated from mouse left-ventricle as described in the main text and seeded onto fibronectin-coated glass cover slips. PLN, SERCA2a and RyR2 were labelled using the following antibodies: monoclonal mouse α -PLN (Thermo), polyclonal rabbit α -SERCA2a (Badrilla) and rabbit α -RyR2 (Sigma). Secondary antibodies conjugated to STED-compatible fluorophores (STAR 580 or STAR 635P, Abberoir) were used for labelling. Images were acquired using a Leica TCS SP8 STED system using an HC PL APO C2S 100x/1.40 oil immersion lens. Image analysis was performed on Fiji using a custom macro similar to those used in our earlier works[1,2].

Heirarchical Clustering. Heirarchical clustering performed using NOVA v. 0.8.0.0[3]. Clustering was performed using Pearson correlation for distance calculation, default parameters, average linkage, without normalization, without leaf order optimization, and without elimination of empty rows.

Supplemental References

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