

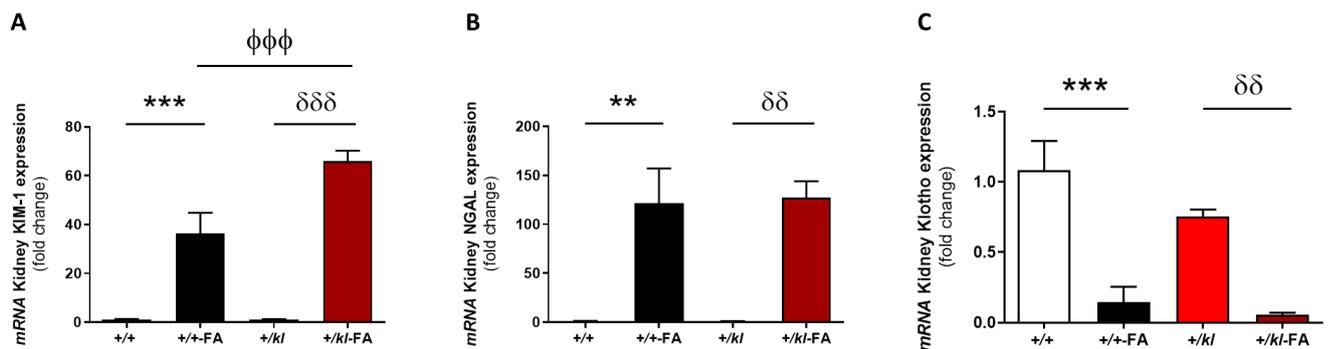
Title: Partial Genetic Deletion of Klotho Aggravates Cardiac Calcium Mishandling in Acute Kidney Injury

Authors: Laura González-Lafuente, José Alberto Navarro-García, Ángela Valero-Almazán, Elena Rodríguez-Sánchez, Sara Vázquez-Sánchez, Elisa Mercado-García, Patricia Pineros, Jonay Poveda, María Fernández-Velasco, Makoto Kuro-o, Luis M. Ruilope and Gema Ruiz-Hurtado

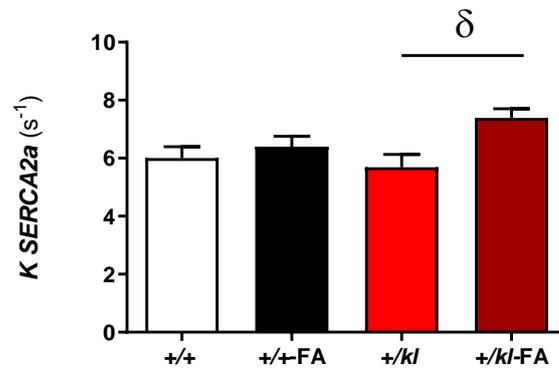
Supplemental Material

Supplementary Figures

Supplemental Figure S1. Biomarkers of kidney injury. Renal mRNA expression of (A) kidney injury molecule-1 (KIM-1), (B) neutrophil gelatinase-associated lipocalin (NGAL) and (C) Klotho, obtained from wild-type $+/+$ (N = 5), $+/+$ -FA (N = 5), $+/kl$ (N = 5) and $+/kl$ -FA animals (N = 5). Data are shown as mean \pm SEM. ** $p < 0.01$, *** $p < 0.001$ vs. $+/+$; $\delta\delta p < 0.01$, $\delta\delta\delta p < 0.001$ vs. $+/kl$; $\Phi\Phi\Phi p < 0.001$ vs. $+/+$ -FA.



Supplemental Figure S2. *K* SERCA2a in cardiomyocytes from +/+ (n = 21 cells, N = 5 mice), +/+-FA (n = 20 cells, N = 4 mice), +/-kl (n = 21 cells, N = 5 mice) and +/-kl-FA animals (n = 18 cells, N = 3 mice). Data are expressed as mean \pm SEM. δ $p < 0.001$ vs. +/-kl.



Supplementary Table

Supplementary Table S1. Ca²⁺ spark characteristics in cardiomyocytes from +/+ and +/kl mice after AKI. FDHM: full width at half maximum; FDHM: full duration at half maximum.

Parameters	+/+	+/+ -FA	+/kl	+/kl -FA
Peak (F/F ₀)	1.33 ± 0.02	1.25 ± 0.01***	1.32 ± 0.01	1.23 ± 0.01 ^{δδδ}
FWHM (μm)	3.07 ± 0.09	2.33 ± 0.08***	3.27 ± 0.07	2.33 ± 0.07 ^{δδδ}
FDHM (ms)	32.37 ± 1.23	30.21 ± 0.88	39.22 ± 1.74***	32.02 ± 0.98 ^{δδδ}

*** $p < 0.001$ vs. +/+; ^{δδδ} $p < 0.001$ vs. +/kl.