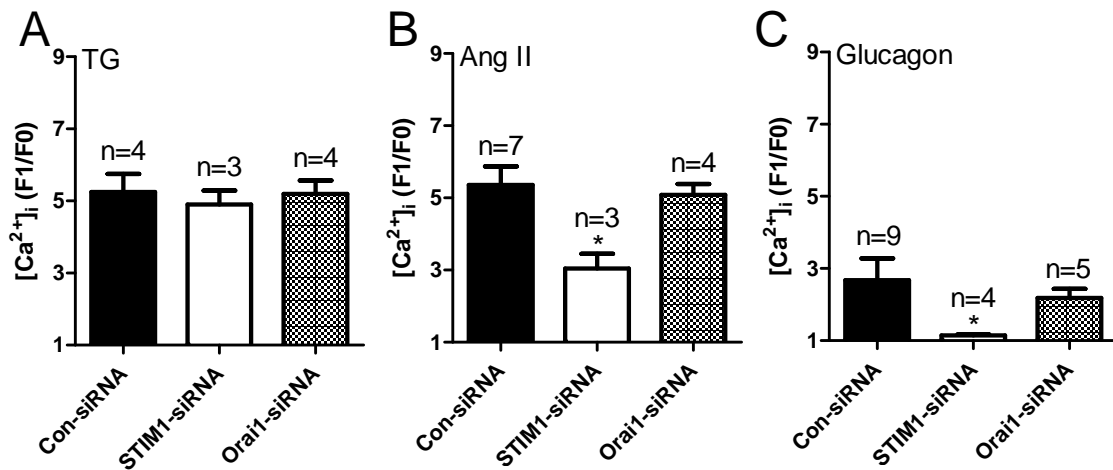


Supplementary Figure 1. Agonist-evoked Ca^{2+} release in primary cultured young and aged glomerular mesangial cells in Ca^{2+} -free saline solution. Summary of data showing 4 μ M thapsigargin (TG, A), 1 μ M angiotensin II (Ang II, B) or 10 nM glucagon (C)-evoked $[Ca^{2+}]_i$ rise in young and aged mesangial cells in Ca^{2+} -free saline solution. Mean \pm SE. * $P < 0.05$. Young (3 months), n=5-6 vs aged (22 months), n=4-9.



Supplementary Figure 2. The effect of STIM 1 and Orai 1 siRNA on agonist-evoked Ca²⁺ release in primary cultured young glomerular mesangial cells in Ca²⁺-free saline solution. Summary of data showing 4 μM thapsigargin (TG, A), 1 μM angiotensin II (Ang II, B) or 10 nM glucagon (C)-evoked [Ca²⁺]_i rise in young mesangial cells transfected with scramble-siRNA control (Con-siRNA), Orai 1 or STIM 1 siRNA in Ca²⁺-free saline solution. Mean ± SE. *P<0.05 compared to mesangial cells transfected with scramble-siRNA control. n=3-9.