



Supplementary Figure 8. (a-b) GTP γ S-induced capacitance changes in *Trpm4*^{+/+} and *Trpm4*^{-/-} BMMCs. **(a)** Representative traces for membrane capacitance changes of *Trpm4*^{+/+} and *Trpm4*^{-/-} BMMCs after break-in with 100 μ M GTP γ S containing pipette solution. **(b)** Averaged ratio of membrane capacitance 10 min after break-in and at the start of the recording ($n=6$ per genotype, $P > 0.05$). **(c-e)** Stimulation of *Trpm4*^{+/+} and *Trpm4*^{-/-} BMMCs with LPS. BMMCs express TLR4 which serves as a receptor for bacterially derived LPS⁴. **(c)** Averaged [Ca²⁺]_{cyt} during stimulation of *Trpm4*^{+/+} ($n=119$) and *Trpm4*^{-/-} ($n=138$) BMMCs with 100ng/ml and 3 μ g/ml LPS (*E. coli* 055:B5, identical results were obtained with *E. coli* 0111:B4 LPS) in standard extracellular medium. Identical results were obtained when 3 μ g/ml LPS was applied first. **(d)** Averaged [Ca²⁺]_{cyt} during stimulation of BMMCs with 100ng/ml DNP-HSA (DNP; *Trpm4*^{+/+} $n=111$, *Trpm4*^{-/-} $n=142$) and 3 μ g/ml LPS + 100ng/ml DNP-HSA (LPS+DNP; *Trpm4*^{+/+} $n=169$, *Trpm4*^{-/-} $n=174$). Arrow indicates addition of stimuli. **(e)** TNF release from *Trpm4*^{+/+} and *Trpm4*^{-/-} BMMCs prior to (bckgr) and after stimulation with 3 μ g/ml LPS (LPS), 100ng/ml DNP-HSA (DNP) or 3 μ g/ml LPS + 100ng/ml DNP-HSA (LPS+DNP) for 3 h. Mean values are obtained from 4 independent experiments, n values represents number of cells, $P < 0.01$. **(f)** Mean difference in TNF released from *Trpm4*^{+/+} and *Trpm4*^{-/-} BMMCs stimulated by LPS+DNP and DNP alone, as in panel c. Mean values are obtained from 4 independent experiments; $P > 0.1$.