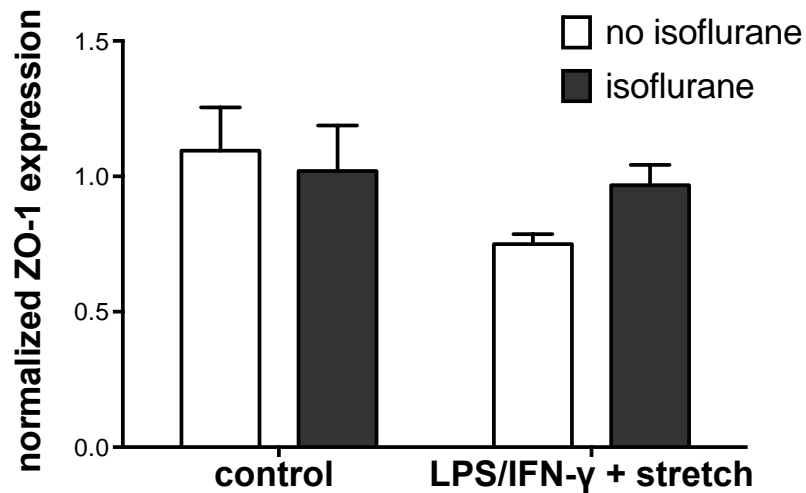


Supplementary Digital Content 3



Isoflurane attenuates the reduction of zona occludens 1 following lipopolysaccharide/interferon gamma and cyclic stretch *in vitro* and does not affect baseline zona occludens levels in control cells. Mouse lung epithelial cells were grown to confluence prior to treatment with lipopolysaccharide (LPS) and interferon gamma (IFN- γ). Following LPS/IFN- γ treatment, cells were exposed to isoflurane (or control gas) 1 day prior to cyclic stretch (10% stretch, 2 hrs). cDNA was synthesized, and message levels were analyzed by qPCR after normalizing for the housekeeping gene 18S. Isoflurane treatment did not affect baseline levels of ZO-1 expression. The combination of LPS/IFN- γ and cyclic stretch (n=13 wells) decreased ZO-1 message levels compared to control cells (no LPS/IFN- γ and no stretch, n=8 wells). Isoflurane attenuated the decrease in ZO-1 levels following LPS/IFN- γ + stretch (n=15 wells).