

Supplementary Material

Supplementary Figure 1

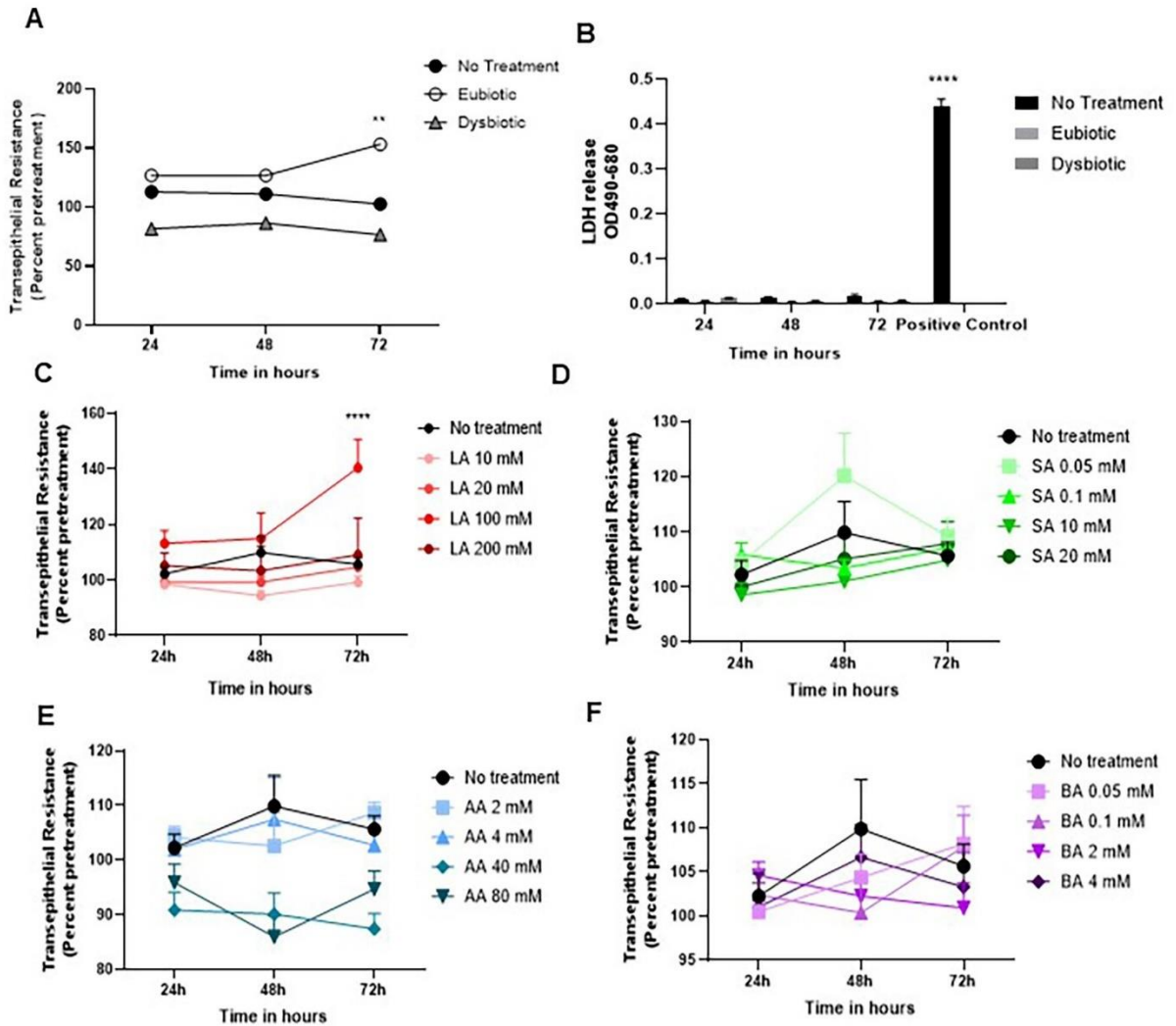


Figure S1: Eubiotic SCFA media increases TER while dysbiotic SCFA media decreases TER without causing cytotoxic effects in vaginal epithelial cells over an extended time range. VK2 cells were grown in ALI conditions for 5 days when baseline TER measurements were taken and

media with eubiotic or dysbiotic conditions of SCFA+LA was added to the apical side. (A) TER measurements were taken every 24 hours of SCFA+LA treatment for 3 days and reported as a percent of pre-treatment TER. (B) Every 24 hours of SCFA+LA treatment, apical media was collected and assessed for LDH concentration as a measure of cell cytotoxicity. Data shown represents mean $\pm$ SEM (n=3) with conditions done in triplicates. Statistical significance: *p < 0.05, ***p < 0.001, ****p < 0.0001. (C-F) VK2 cells that were also treated with different concentrations of LA (C), SA (D), AA (E) and SA (F) in a range of concentrations were added to the apical side of the cell cultures and TER was taken before and 24, 48 and 72 hours after incubation with treatments. Data show represents mean $\pm$ SEM (n=4) with conditions done in triplicates.