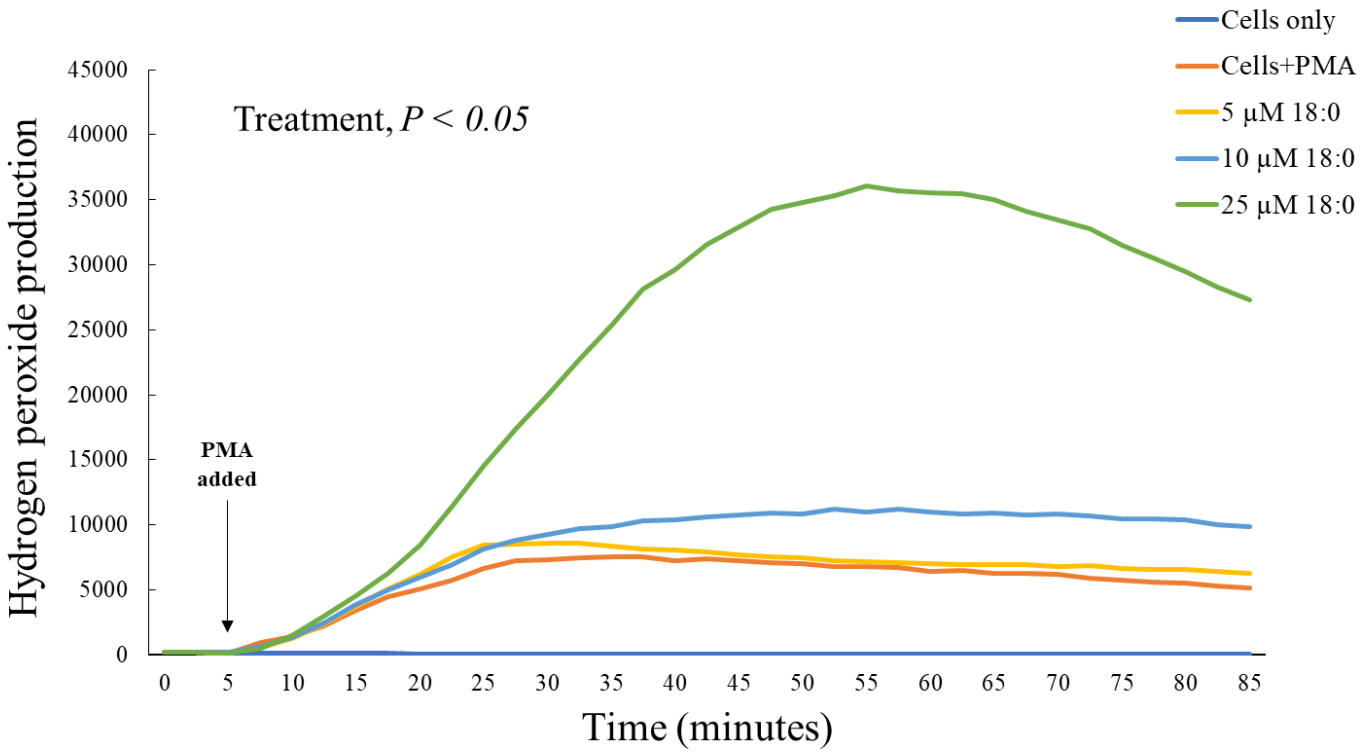
Brianna Tate

Figure 1. Effects of 18:0-LPC on neutrophil hydrogen peroxide production



The effects of 18:0-LPC on hydrogen peroxide production in neonatal Holstein calf neutrophils (n=2). Whole blood was collected in a heparinized tube and neutrophils were isolated using a double-density gradient centrifugation technique (Histopaque 1.119/1.077 g/mL). After layering and centrifugation, neutrophils were removed from the interface and washed in phosphate-buffered saline, counted, and plated at a density of 1 x 106 cells in white 96-well solid polystyrene plates. Neutrophils were preincubated with vehicle or LPC for 10 min then challenged with phorbol 12-myristate 13-acetate (PMA), a stimulator of neutrophil superoxide release. Bioluminescence was measured every five minutes for a duration of 80 minutes using a bioluminescence assay kit read by a Promega™ GloMax® Luminometer.