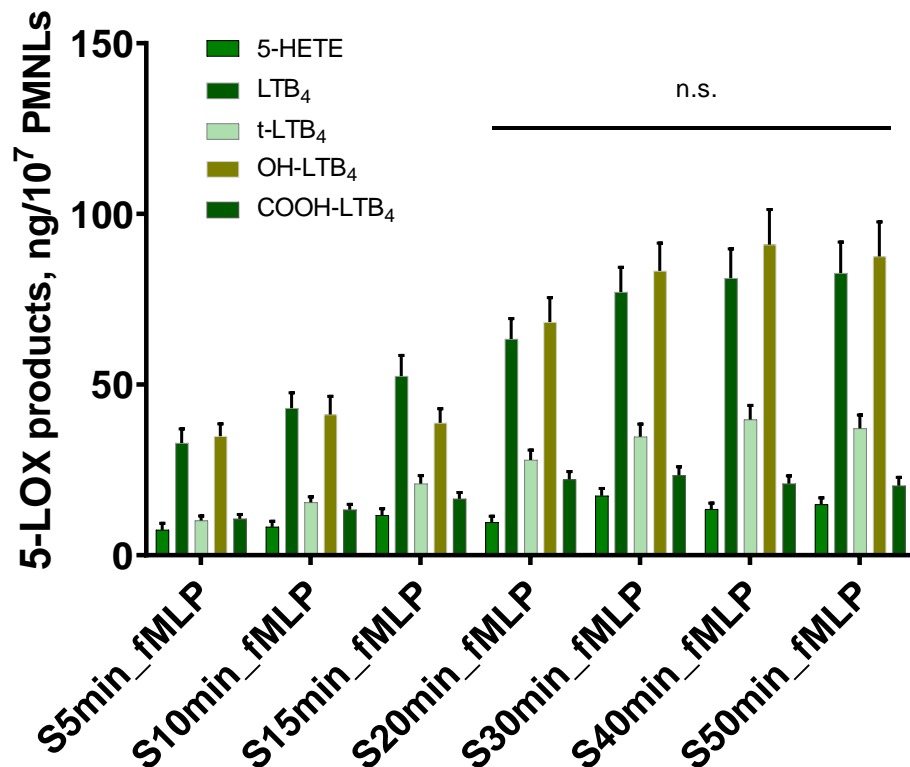
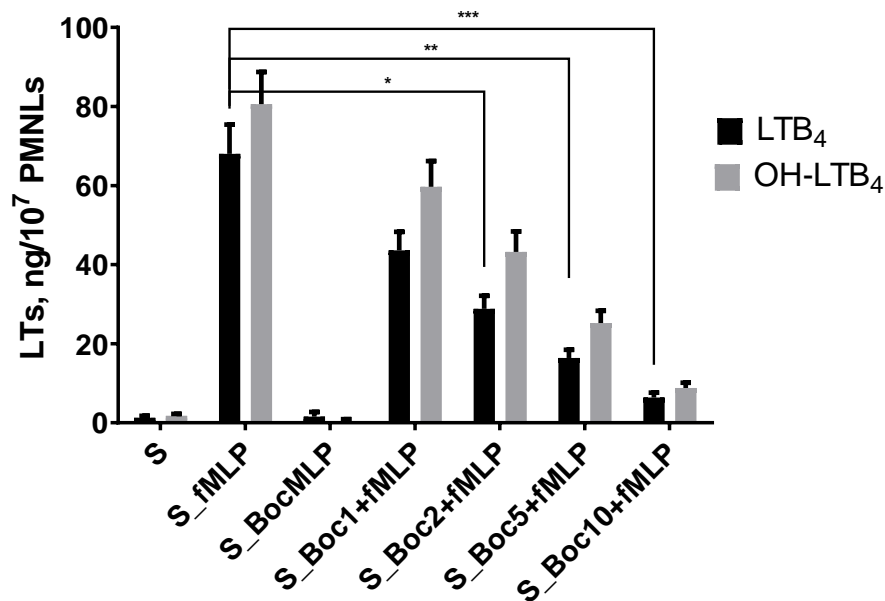


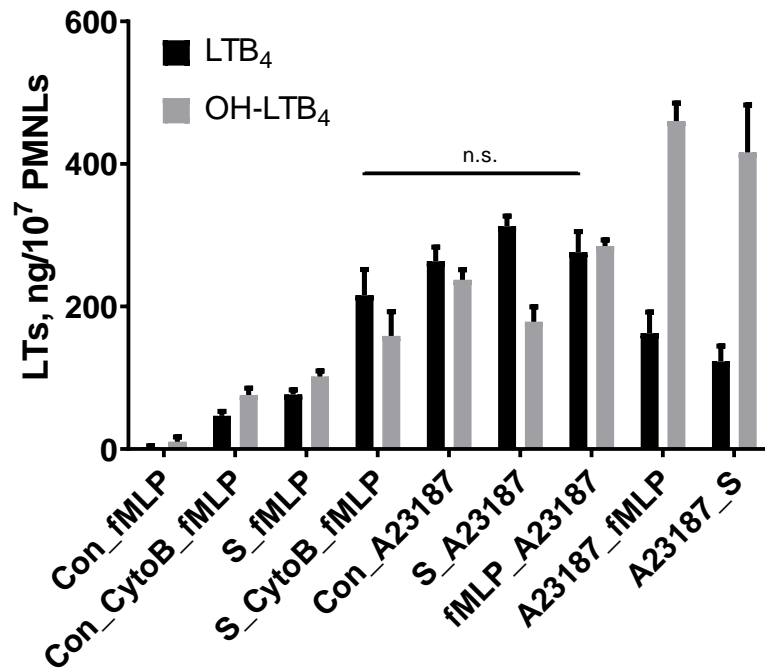
Supplementary Material



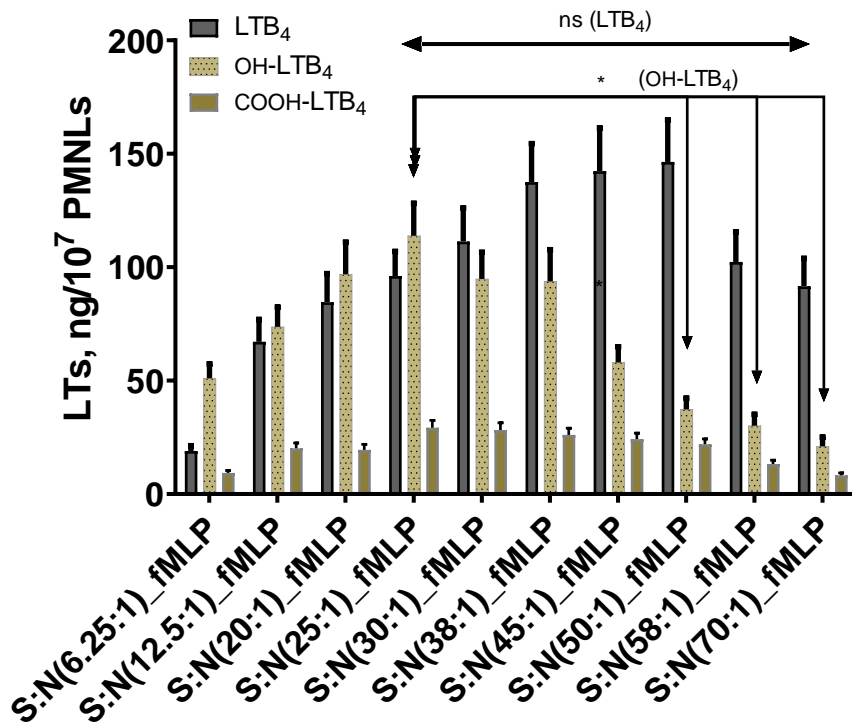
Supplementary Figure 1. 5-LOX product synthesis in human neutrophil at bacteria *Salmonella typhimurium* exposure (the ratio of bacteria:PMNLs ~ 25:1) followed by fMLP (0.1 μ M) addition for 10 min. PMNLs (0.9-1.0) $\times 10^7/6$ ml were pre-incubated for 10 min at 37 $^{\circ}$ C, 5% CO₂. Bacteria were added for 5-50 min, the time is indicated. The 5-LOX products were analyzed using HPLC, and data for 5-HETE, LTB₄, t-LTB₄, ω -OH-LTB₄ and ω -COOH-LTB₄ are presented. Values indicate mean \pm SEM of three independent experiments performed in duplicate. The pairs of data were compared by two-way ANOVA followed by Tukey's multiple comparison test.



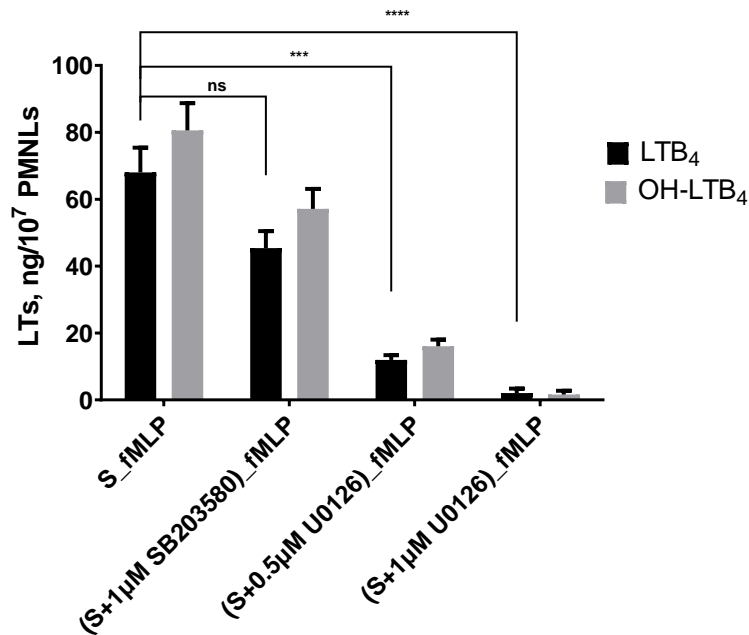
Supplementary Figure 2. Effect of BocMLP (Boc) on leukotriene synthesis in human neutrophil at bacteria *Salmonella typhimurium* (S) exposure followed by fMLP (0.1 μ M), or BocMLP (0.1 μ M) or BocMLP and fMLP addition for 10 min. The ratio of bacteria:PMNLs \sim 25:1. PMNLs (0.9-1.0) $\times 10^7/6$ ml were pre-incubated for 10 min at 37 $^{\circ}$ C, 5% CO₂. At single treatment, S were added for 30 min. At complex treatment, bacteria were added for 30 min, then fMLP (0.1 μ M), or BocMLP (the number means 1, 2, 5, 10 μ M) and immediately fMLP were added for 10 min. The 5-LOX products were analyzed using HPLC, and data for LTB₄ and ω -OH-LTB₄ are presented. Values indicate mean \pm SEM of three independent experiments performed in duplicate. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ for pairs of data compared as indicated by two-way ANOVA followed by Tukey's multiple comparison test.



Supplementary Figure 3. Effect of various stimuli on leukotriene synthesis in human neutrophils. PMNLs ($0.9-1.0 \times 10^7/6\text{ml}$) were pre-incubated for 10 min at 37°C , 5% CO_2 . First, PMNLs incubated with no additives (Con) or bacteria (S) or fMLP ($0.1 \mu\text{M}$) or A23187 ($1 \mu\text{M}$) for 30min; then Cyto B ($5 \mu\text{M}$) was added for 10 min, as indicated. Further, fMLP ($0.1 \mu\text{M}$) or A23187 ($1 \mu\text{M}$) or bacteria were added for 10 min, as indicated. The 5-LOX products were analyzed using HPLC, and data for LTB₄ and ω -OH-LTB₄ are presented. Values indicate mean \pm SEM of four independent experiments performed in duplicate. The pairs of data compared by two-way ANOVA followed by Tukey's multiple comparison test.



Supplementary Figure 4. Leukotriene synthesis in human neutrophils at various bacterial load. PMNLs ($0.9-1.0 \times 10^7/6$ ml) were pre-incubated for 10 min at 37 °C, 5% CO₂. Human neutrophils exposed to *Salmonella typhimurium* for 30 min (1st treatment) followed by fMLP (0.1 μM) addition for 10 min, the ratio of bacteria (S):PMNLs (N) is indicated. The 5-LOX products were analyzed using HPLC, and data for LTB₄, ω-OH-LTB₄ and ω-COOH-LTB₄ are presented. Values indicate mean ± SEM of three independent experiments performed in duplicate. *p < 0.05 for pairs of data compared as indicated by two-way ANOVA followed by Tukey's multiple comparison test.



Supplementary Figure 5. Effect of MAPK inhibitors SB203580 and U0126 on leukotriene synthesis in human neutrophil at bacteria *Salmonella typhimurium* (S) exposure followed by fMLP (0.1 µM) addition. The ratio of bacteria:PMNLs ~ 25:1. PMNLs (0.9-1.0) x10⁷/6 ml were pre-incubated for 10 min at 37 °C, 5% CO₂. At 1st treatment, bacteria, or bacteria plus SB203580, or bacteria plus U0126 were added for 30 min, then fMLP (0.1 µM) was added for 10 min. The 5-LOX products were analyzed using HPLC, and data for LTB₄ and ω-OH-LTB₄ are presented. Values indicate mean ± SEM of three independent experiments performed in duplicate. ***p < 0.001, ****p < 0.0001 for pairs of data compared as indicated by two-way ANOVA followed by Tukey's multiple comparison test.