

Supplement Files

Supplement Table S1: RNAseq. HSC2 cells were incubated with LPS *E.coli*, LPS *P.gingivalis*, and TNF α for 24 h. RNA was subjected to RNAseq analysis. Chemokine genes are shown by the expression counts.

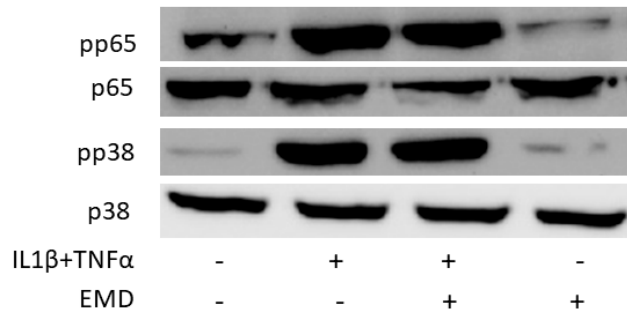
| Genes | wo | LPS <i>E.coli</i> | LPS <i>P. gingivalis</i> | TNF α |
|--------|----|-------------------|--------------------------|--------------|
| CXCL1 | 12 | 6 | 16 | 262 |
| CXCL2 | 0 | 1 | 1 | 5 |
| CXCL3 | 2 | 1 | 0 | 22 |
| CXCL8 | 0 | 2 | 3 | 117 |
| CXCL9 | 0 | 0 | 0 | 29 |
| CXCL10 | 0 | 1 | 0 | 996 |
| CXCL11 | 0 | 0 | 0 | 214 |
| CXCL16 | 59 | 98 | 74 | 546 |
| CCL5 | 6 | 6 | 9 | 372 |
| CCL20 | 0 | 3 | 2 | 47 |

Supplement Table S2: Gene expression of CXCL8 in HSC2 cells under TNF α and IL-1 β stimulation. 10 ng/mL TGF- β and 300 μ g/mL EMD reduced expression and 10 μ M SB431542 reversed the reduced effect provoked by EMD. Data shows the average and standard deviation of independent experiments.

| IL1 β + TNF α | IL1 β + TNF α +TGF- β | IL1 β + TNF α +TGF- β +SB | IL1 β + | TNF α +EMD |
|--|--|--|-----------------|-------------------|
| <u>IL1β+TNFα+EMD+SB</u> | | | | |
| 404.1 \pm 62.1 | 155.5 \pm 25.9 | 290.6 \pm 38.8 | 76.3 \pm 19.9 | 250.9 \pm 3.6 |

Supplement Table S3: List of Abbreviations and Acronyms

| Abbreviation | Definition |
|----------------------|--|
| EDM | Enamel matrix derivative |
| LPS | Lipopolysaccharide |
| <i>E. coli</i> | Escherichia coli |
| <i>P. gingivalis</i> | Porphyromonas gingivalis |
| TNF α | Tumor necrosis factor-alpha |
| CXCL1 | C-X-C motif chemokine ligand 1 |
| CCL5 | CC-chemokine ligand 5 |
| IL-1 β | Interleukin-1 β |
| NF κ B | Nuclear factor kappa B |
| TGF- β | Transforming growth factor- β |
| ANOVA | Analysis of variance |
| RM one-way ANOVA | One-way repeated measures analysis of variance |
| RNAseq | RNA Sequencing |
| CD14 | cluster of differentiation 14 |
| TLR | toll-like receptor |
| IFN- λ 1 | Interferon lambda-1 |
| MX2 | MX dynamin like GTPase 2 |
| PPP1R3F | Protein phosphatase 1 regulatory subunit 3F |



Supplement Figure S1: EMD cannot decrease the p65 and p38 phosphorylation in HSC2 cells. HSC2 cells were exposed to 300 µg/mL EMD with and without 10 ng/mL IL1β and TNFα aiming to induce the phosphorylation of p65 and p38. Western blot analysis shows the chemiluminescence signals obtained with the phosphor-p65 and p65 and phosphor-p38 and p38 antibodies