

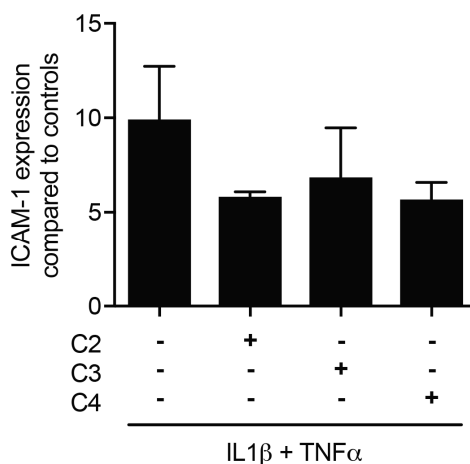


SUPPLEMENT

Butyrate decreases ICAM-1 expression in human oral squamous cell carcinoma cells

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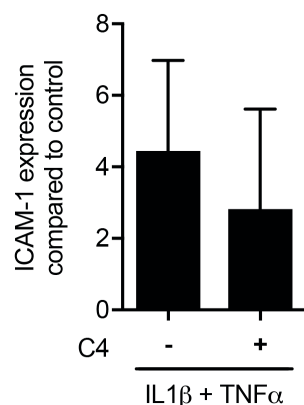
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SUPPLEMENT Figure 1. Butyrate failed to suppress the increase of ICAM-1 in gingival fibroblasts.

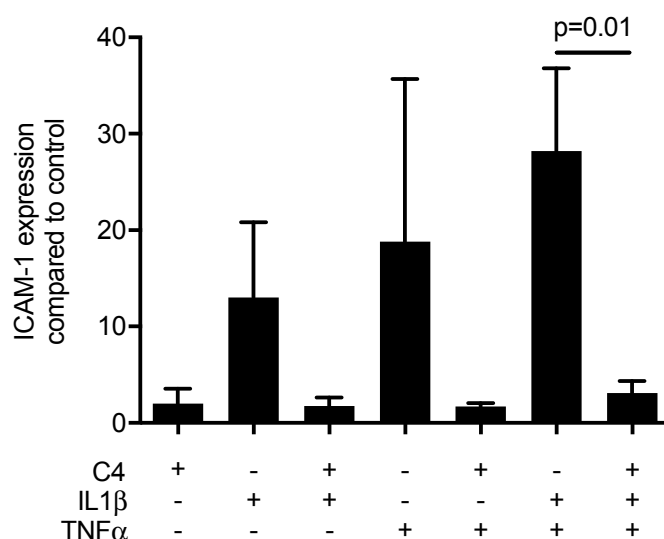
Gingival fibroblasts were exposed to 10mM acetate (C2), propionate (C3) and butyrate (C4) in the presence of 10 ng/ml IL1 β and TNF α . Data represent the mean change of ICAM-1 expression \pm standard deviation.

N=3. Statistical analysis was based on ANOVA and Tukey's multiple comparisons correction .



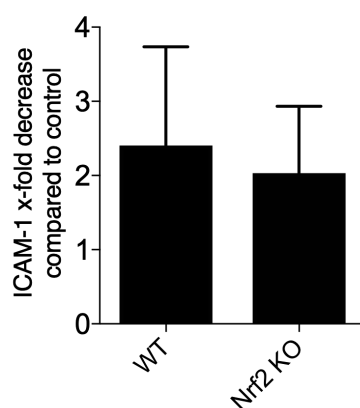
SUPPLEMENT Figure 2. Butyrate failed to suppress the cytokine-induced increase of ICAM-1 in TR146 cells.

TR146 cells were either exposed or not to 10μM butyrate (C4) in the presence of 10 ng/ml IL1β and TNFα. Data represent the mean change of ICAM-1 expression ± standard deviation. N=3. Statistical analysis based on Mann-Whitney U test.



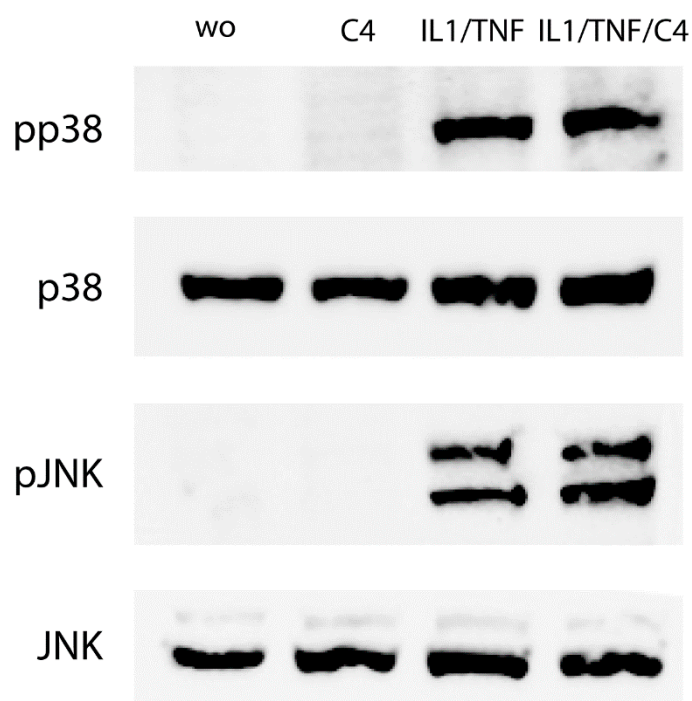
SUPPLEMENT Figure 3. Butyrate suppress the IL1β or TNFα-induced increase of ICAM-1 in HSC-2 cells.

HSC-2 cells exposed to 10mM butyrate (C4) were independently stimulated with 10 ng/ml IL1β or TNFα for three hours to push ICAM-1 expression in HSC-2 cells. Data represent the mean change of ICAM-1 expression ± standard deviation. N=3. Statistical analysis based on Mann-Whitney U test and t-test.



SUPPLEMENT Figure 4. Macrophages from Nrf2 knockout mice respond to butyrate decreasing ICAM-1.

Macrophages from Nrf2 knockout and the respective wildtype controls mice were exposed to 10mM butyrate for 24 hours before LPS-induced ICAM-1 expression was detected. Graphs represent the relative reduction of ICAM-1 expression. N=4. Statistical analysis based on Mann-Whitney U test showed no significance.



SUPPLEMENT Figure 5. Butyrate failed to change the phosphorylation of MAPK in HSC-2 cells.

HSC-2 cells were exposed to butyrate (C4) for 24 hours before the phosphorylation was induced with 10 ng/ml IL1 β and TNF α for 30 minutes. wo=control group. The phosphorylation levels were detected by Western blot analysis.