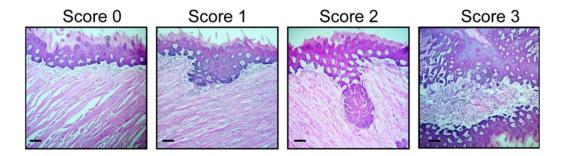
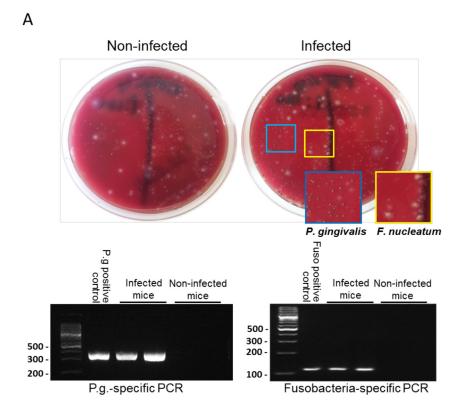
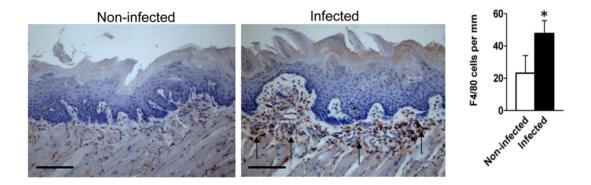
## **SUPPLEMENTARY FIGURES**



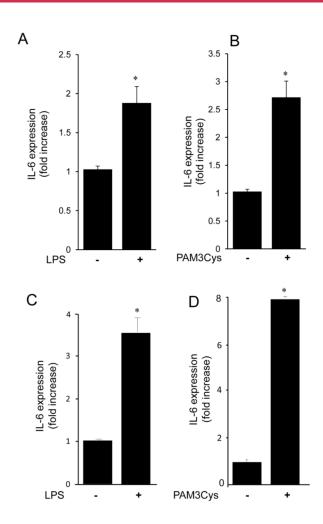
**Supplementary Figure 1: Tongue tumor invasion score.** Invasion was scored in a blinded fashion by the expert pathologist (S.F.) as follows: 0 = no evidence of invasion, 1 = malignant cells deep to basal cell layer, no invasion into muscle; 2 = minor invasion into striated muscle; 3 = invasion through the full depth of striated muscle. Representative images of H&E stained sections are shown. Magnification  $\times$  100.



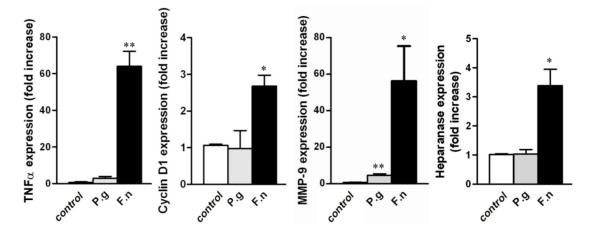
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Supplementary Figure 2: A. Recovery of P gingivalis and F. F. F mucleatum from tongues of infected mice. The presence of both bacteria on the tongue surface was confirmed by swabbing, culturing and PCR with primers specific for F. F mucleatum and F gingivalis, as described in Methods. Top: representative images of bacterial colonies recovered from non-infected (left) and infected (right) mice are present. Insets: enlarged images of the areas delineated by blue line (representing F gingivalis colonies, identified by black pigmentation) and by yellow line (representing F mucleatum colonies, identified by yellow-gray color) are shown. Bottom: identity of F gingivalis (left) and F mucleatum (right), confirmed by colony PCR. F Increased macrophage infiltration in tongue sub-epithelium of mice infected with F gingivalis/F mucleatum. Left and Middle: Immunostaining with anti F4/80 (black arrows) of tongue specimens harvested on experimental week 18 from non-infected (left) and infected (middle) mice. Original magnification  $\times$  200. Right: Quantification of F4/80-positive macrophages. Data shown are mean  $\times$  SD, F mice per condition.  $\times$   $\times$  0.01.



Supplementary Figure 3: Increase in IL-6 expression by SCC cell lines in response to treatment with TLR 4 and TLR 2/1- specific ligands. SCC-25 A, B. and CAL 27 C, D. cells were remained untreated or treated for 4 h with either LPS (A, C) or PAM3Cys (B, D). IL-6 expression was assessed by qRT-PCR. \*P < 0.05.



Supplementary Figure 4: Increased expression of SCC-promoting biomolecules by SCC-25 cells following co-culture with either P. gingivalis or F. nucleatum. SCC-25 cells were cultured alone or in the presence of P. gingivalis or F. nucleatum. qRT-PCR was used to assess expression of TNFa (4 hours of co-culture), cyclin D1, MMP9 and heparanase (24 h of co-culturing). \*P < 0.05. \*\*P < 0.01.