

***Porphyromonas gingivalis* promotes immunoevasion of oral cancer via protecting cancer from macrophages attack**

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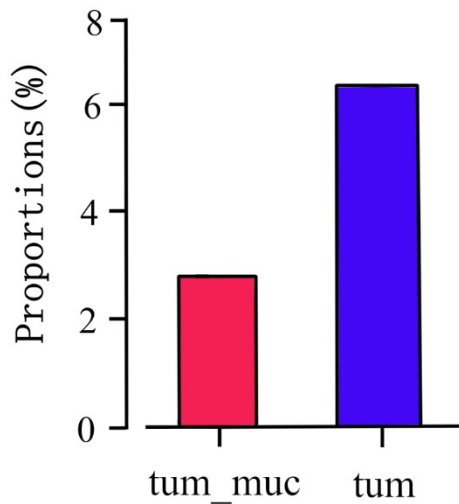
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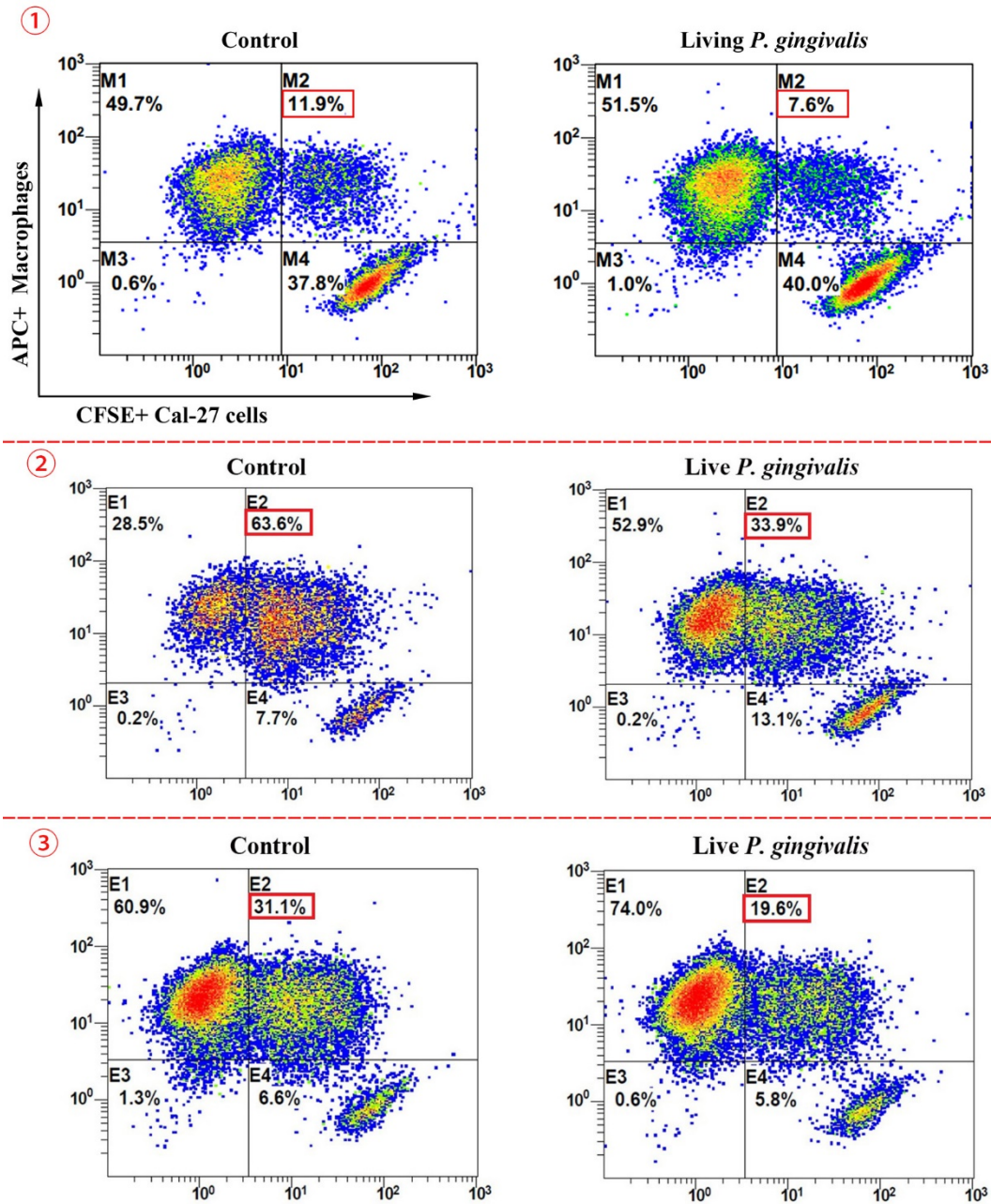
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Supplementary Figure 1

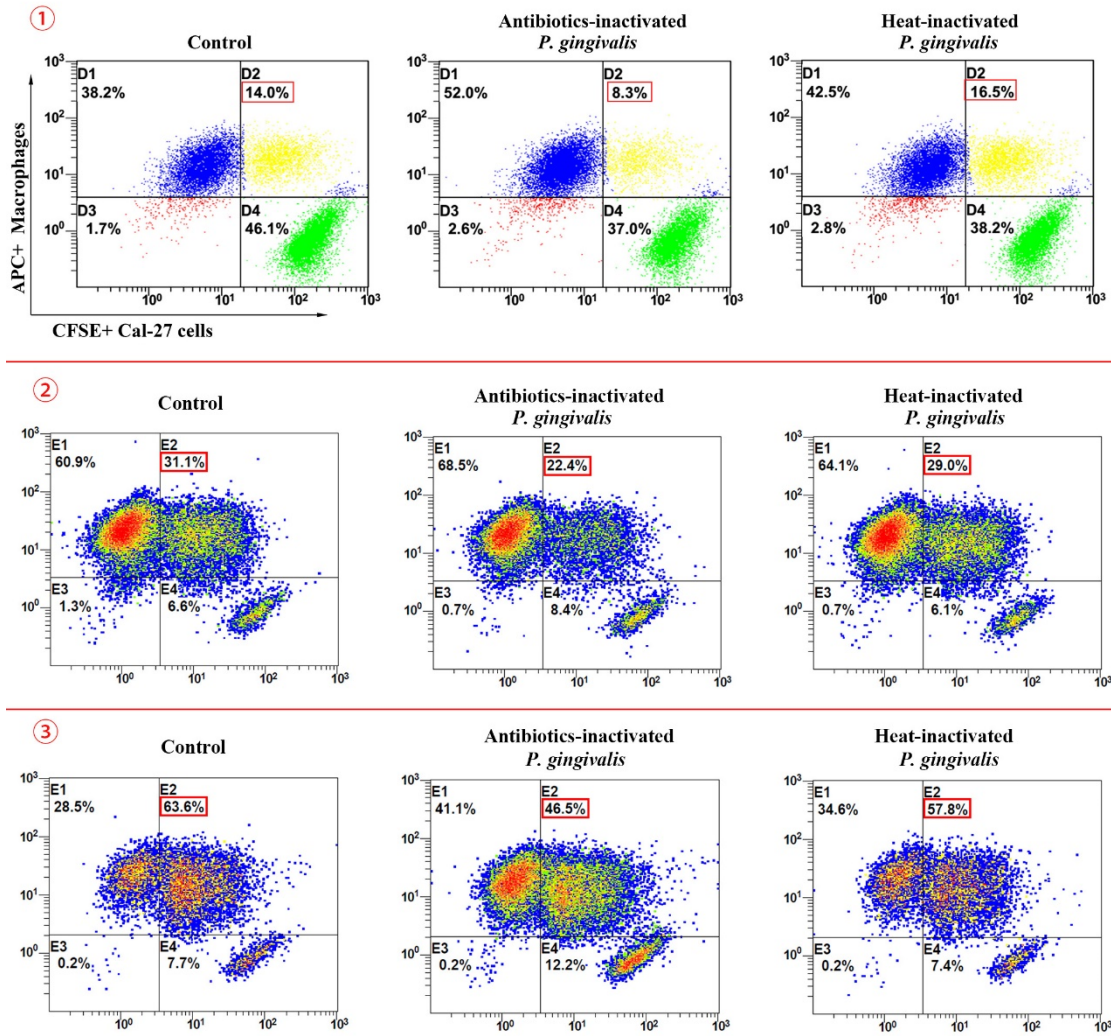
Porphyromonas abundance analysis of OSCC samples.

Microbial samples from tumor lesion surface and tumor inner area of 25 patients were obtained. The red bars indicate tumor surface (tum_muc) and the blue bars indicate tumor inner area (tum). Twenty-five OSCC patients ≥ 18 y of age were chosen to enter the study. None of the patients had taken antibiotics, glucocorticoids, adrenocortical hormones, immune-stimulating cytokines, immunosuppressive agents, probiotics $> 10^8$ CFU/per day in the past six months. None of the patients had local use of antibiotics in the past seven days. HIV, HBV and HCV positive patients were excluded from the study. Patients with oral fungal infection, calculus index ≥ 2 , DMFT (Decayed, missing or filled teeth) index > 6 , were excluded from the study.



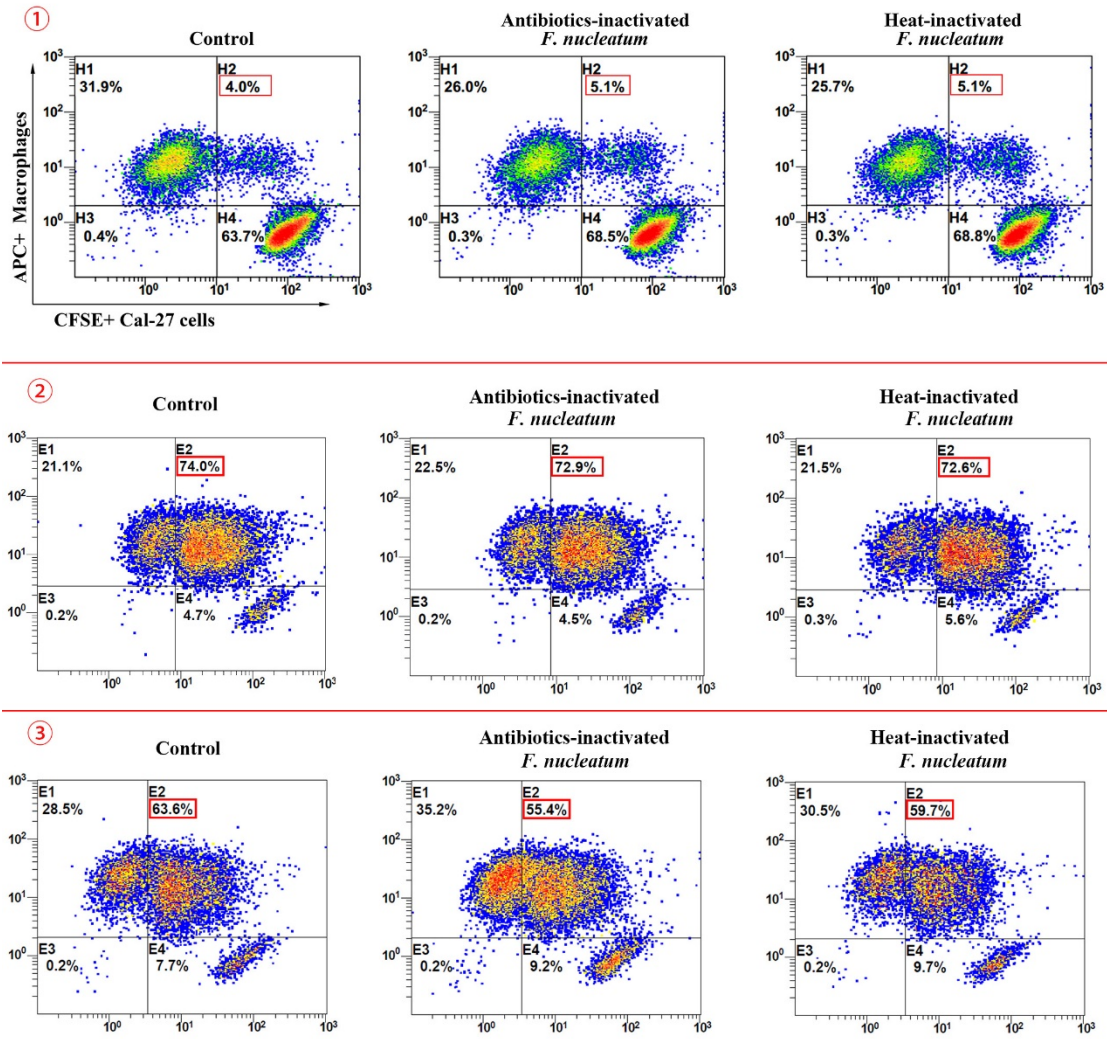
Supplementary Figure 2

Three repeated experiments of effect of living *P. gingivalis* on macrophages phagocytizing Cal-27 cells for 2 h.



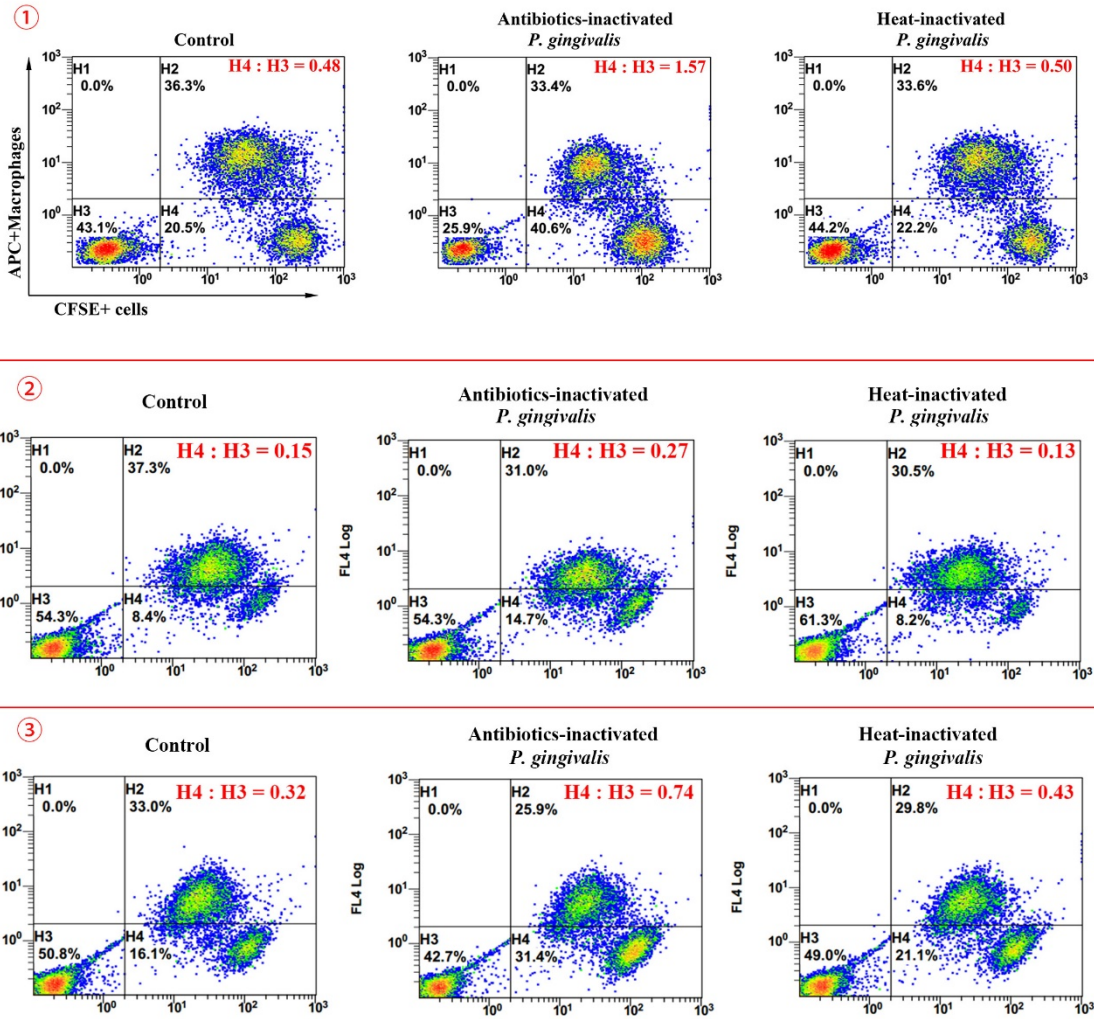
Supplementary Figure 3

Three repeated experiments of effect of inactivated *P. gingivalis* on macrophages phagocytizing Cal-27 cells for 2 h.



Supplementary Figure 4

Three repeated experiments of effect of inactivated *F. nucleatum* on macrophages phagocytizing Cal-27 cells for 2 h.



Supplementary Figure 5

Three repeated experiments of effect of inactivated *P. gingivalis* on macrophages phagocytizing Cal-27 cells overnight.