



Fig. S5. Dose-dependent pH changes induced by *P. acnes* strains. HPV-KER cells were treated with live and heat-killed bacteria at various multiplicity of infections in a DMEM-HG media, which contains a pH-sensitive phenol-red dye. Culture pH was determined visually by inspecting the colour changes of the phenol-red in the culturing medium. Gradual acidification was detected with increasing MOI in the live *P. acnes* 889 and ATCC 11828-treated cultures. (Representative image of 3 parallel experiments.)