Title: A novel microfluidic co-culture system for investigation of bacterial cancer targeting

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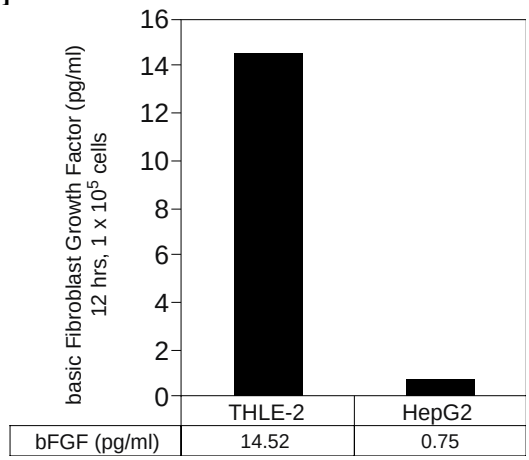
[Supplementary Fig. S-4]



Supplementary Fig. S-4 Quantification of the cell-secreted basic fibroblast growth factor level using an enzyme-linked immunosorbent assay**.** To confirm and quantify the level of basic fibroblast growth factor (bFGF) released by cells, the amount of bFGF in cell culture media supernatant was determined using Quantikine Human FGF basic kit (R&D Systems). The cell conditioned media were prepared under conditions identical to those described above and stored at -80°C before use. The conditioned media were mixed with reagents and incubated for recommended time (Assay Diluent: 2 hours, FGF basic Conjugate: 2 hours, Substrate Solution: 30 minutes) at room temperature. Optical density (OD) values were measured at 450 nm using a spectrophotometer (Emax Precision Microplate Reader, Molecular Devices, Sunnyvale, CA, USA). The bFGF concentration of each sample was calculated using a standard curve, which was determined using a standard FGF basic solution. Quantification of bFGF expression in normal and cancer hepatocytes revealed that normal cells expressed significantly higher level of bFGF compared to cancer cells. Therefore bFGF cannot be considered as chemo-attractant for *S.typhimurium* in liver cancer targeting.