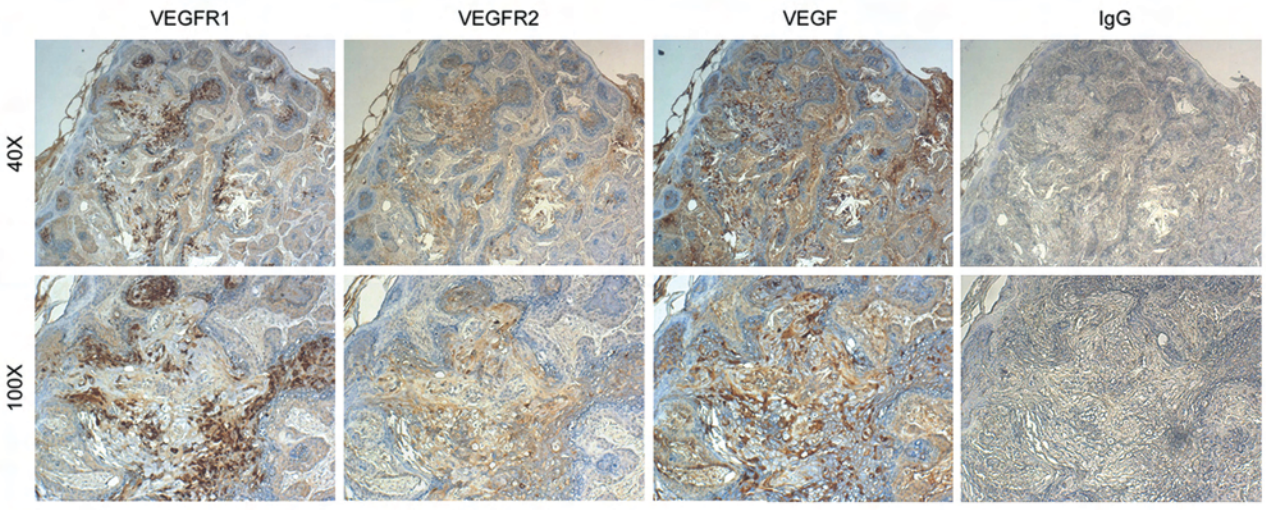
Supplementary Figure Legends

Supplementary Figure 1. VEGFR1 and VEGFR2 expression in a xenografted head and neck squamous cell carcinoma (HNSCC). Serial and sequential tissue sections prepared from xenografted tumors originated by the co-implantation of UM-SCC-1 and HDMEC were immunostained with anti-human VEGFR1, VEGFR2, VEGF, and isotype-matched IgG. Representative fields at 40x and 100x.

Supplementary Figure 2. Effect of the activation of the JNK-c-Jun signaling axis on VEGFR2 expression in endothelial cells. (**a**) HDMEC were exposed to UV radiation for 1 min, and then cultured for indicated time points. (**b**) Starved HDMEC were pre-incubated with 10 μM SP600125 for 1 hour, then treated with 2.5 μg/ml Anisomycin in presence/absence of SP600125. VEGFR2 expression and JNK/c-Jun activation were detected by Western blots.

Supplementary Figure 3. Effect of STAT3, Akt, and ERK1/2 signaling on endothelial cell survival and capillary tube formation. (**a**-**c**) Graph depicting the number of capillary branches (**a**), representative photomicrographs (40x) (**c**), and graph depicting the number of HDMEC (**b**) cultured in presence of 5 μM or 20 μM JAK II inhibitor AG490, PI3-K inhibitor LY294002, or MEK inhibitor (upstream of ERK) PD98059 (**c**). HDMEC were cultured in growth factor reduced Matrigel with complete EGM2-MV medium for 24 hours. Data are represented as mean +/- SD from three independent experiments. Asterisk indicates $p<0.05$, as compared to vehicle controls.

Supplementary Figure 4. Effect of VEGF on FBS-mediated regulation of VEGFR1 and VEGFR2. HDMEC were cultured in absence or presence of 5% fetal bovine serum (FBS), and treated with 0-100 μg/ml Bevacizumab for 24 hours. VEGFR1 and VEGFR2 expression were detected by Western blot.



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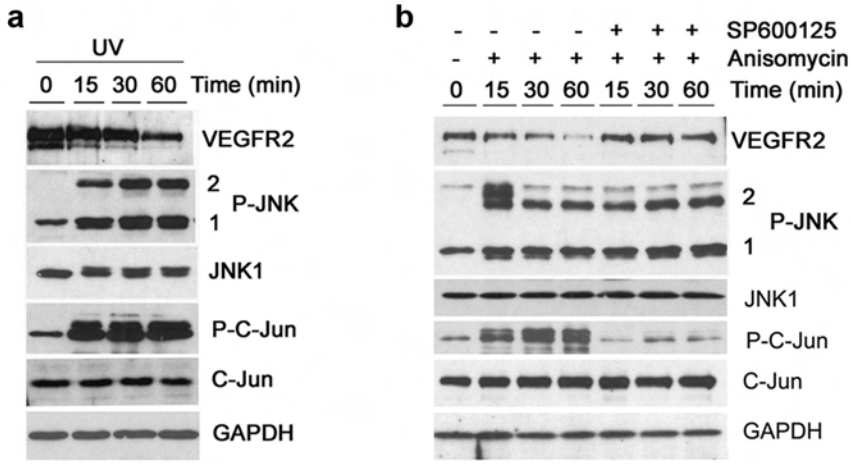

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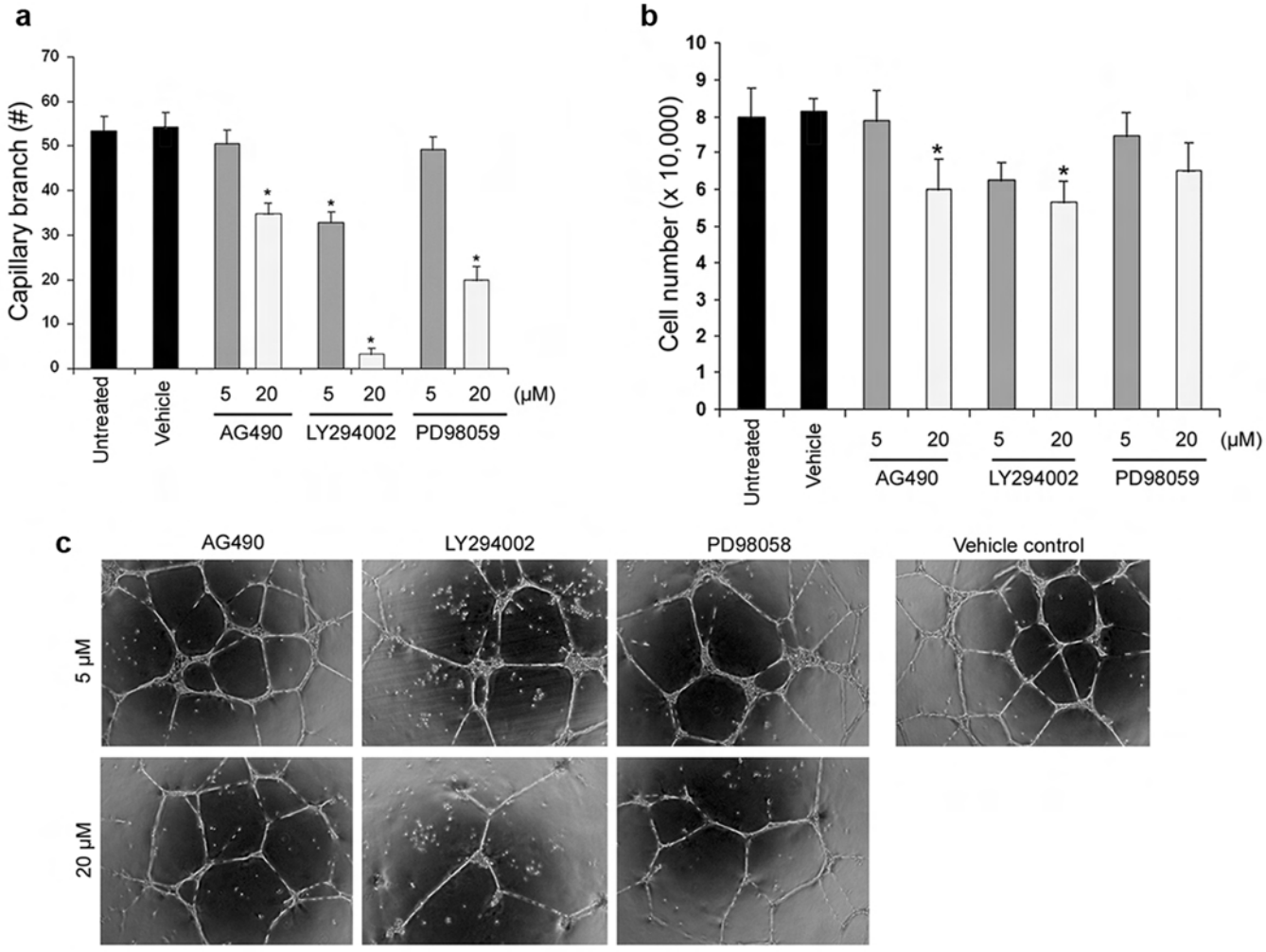

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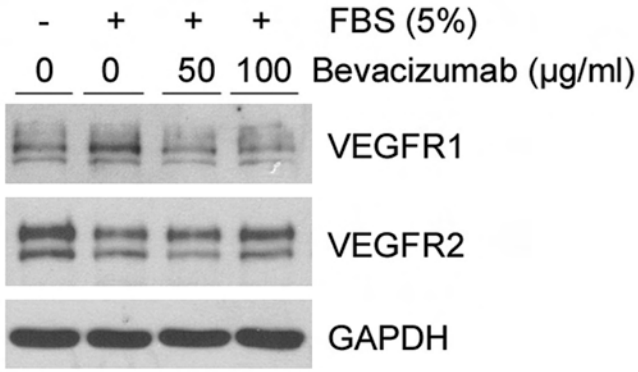

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