



### S11 Fig. Tumor 10.

Quantification of (A) relative total spheroid area, (B) relative spheroid number, and (C) relative average spheroid size, with error bars indicating the standard error of the mean. Quantified mutant subpopulations are plotted (D), with error bars indicating standard deviation. Three mutant subpopulations were detected and quantified, but no erlotinib-treated culture showed a significantly larger subpopulation than both the 0  $\mu\text{M}$  erlotinib culture and the Tumor 10 TR (one-tailed Mann Whitney test,  $P = 0.0500$ ). *PIK3CA* H1047R MF measurements were not obtained for the 0.1 or 1  $\mu\text{M}$  erlotinib cultures. An example of spheroid culture appearance is provided (E), in which the scale bar = 200  $\mu\text{m}$ .