

## Supplementary

**Figs. S1-S3:** Sensitivity to production parameters where focal suppression occurs between lines of the same color, global suppression occurs above this region (high  $\tilde{g}'_a$ , low  $\tilde{g}'_p$ ) and global angiogenesis occurs above (low  $\tilde{g}'_a$ , high  $\tilde{g}'_p$ ). The black square denotes parameters from Table 2 used for the tumor angiogenic factor production ( $\tilde{g}'_p = 349$ ) while the black circle indicates the lowered proangiogenic factor production used for chemotherapy ( $\tilde{g}'_p = 279$ ); resulting angiogenic activity profiles are shown in Fig. S4.

**Figs. S4-S5:** Applying chemotherapy leads to cell death and hence decreased tumor proangiogenic production (from  $\tilde{g}'_p = 349$  to  $\tilde{g}'_p = 279$ ). Applying antiangiogenic therapy inactivates proangiogenic factors leading to increased tumor proangiogenic deactivation (from  $\tilde{k}'_p = 58$  to  $\tilde{k}'_p = 70$ ).

Fig. S1

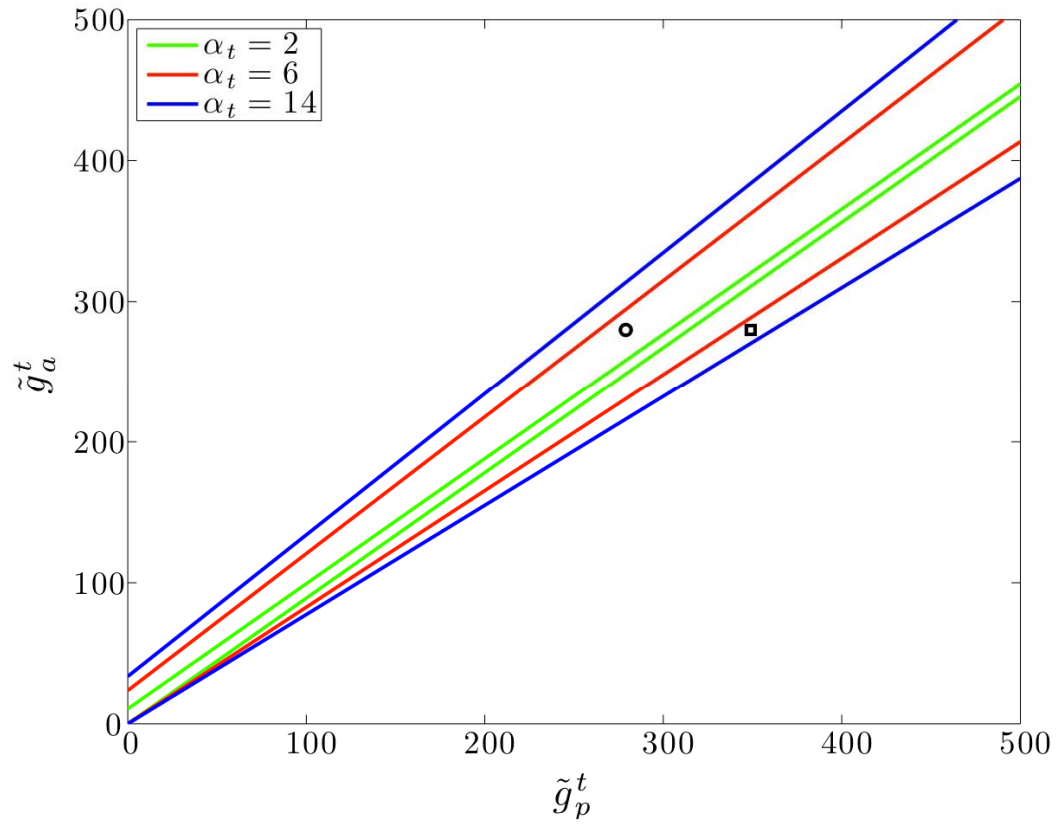


Fig. S2

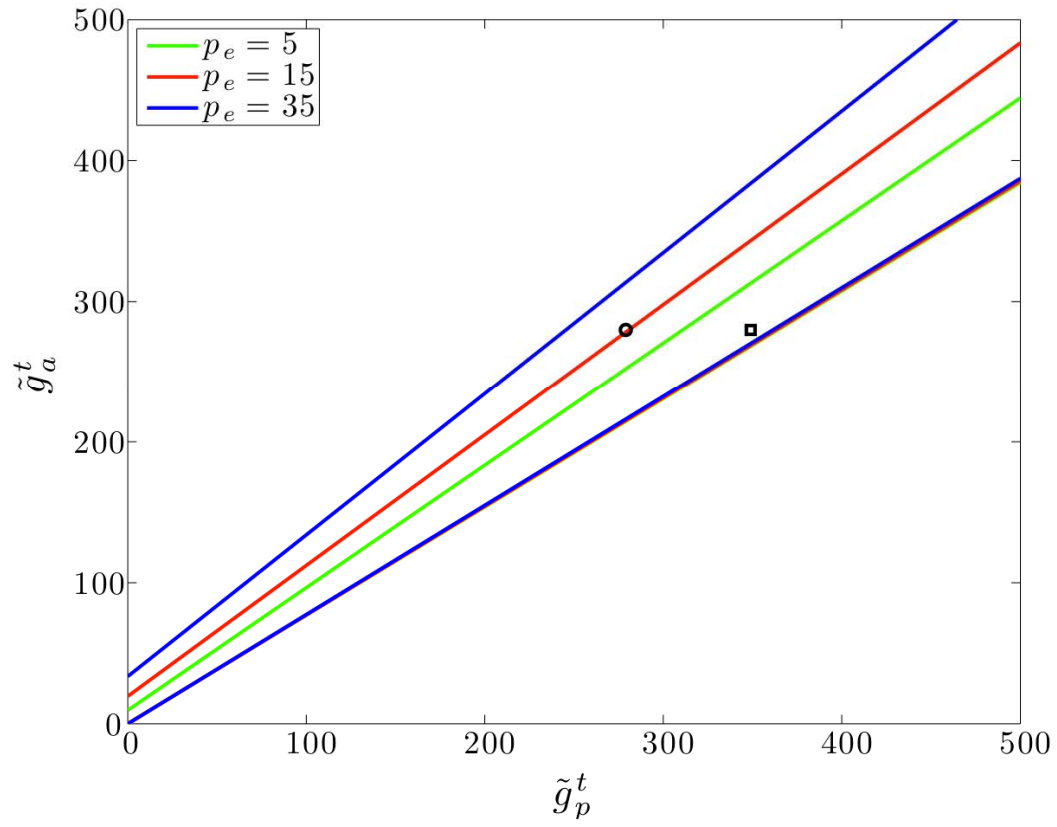


Fig. S3

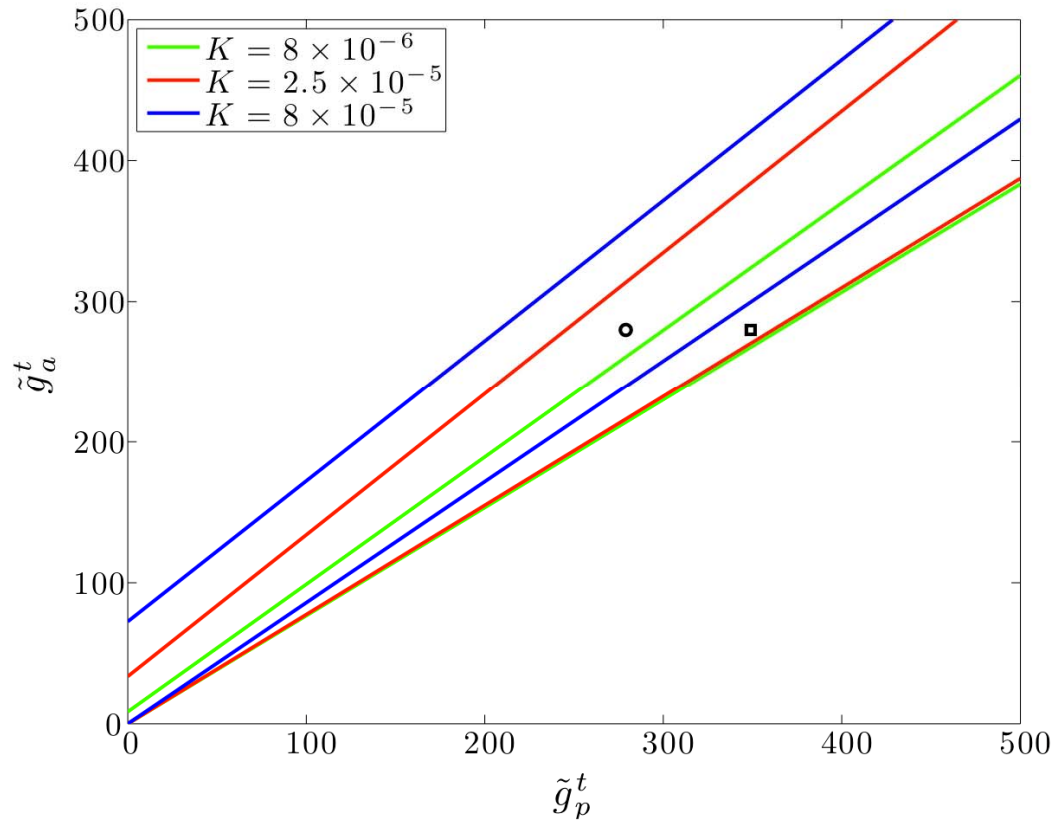


Fig. S4

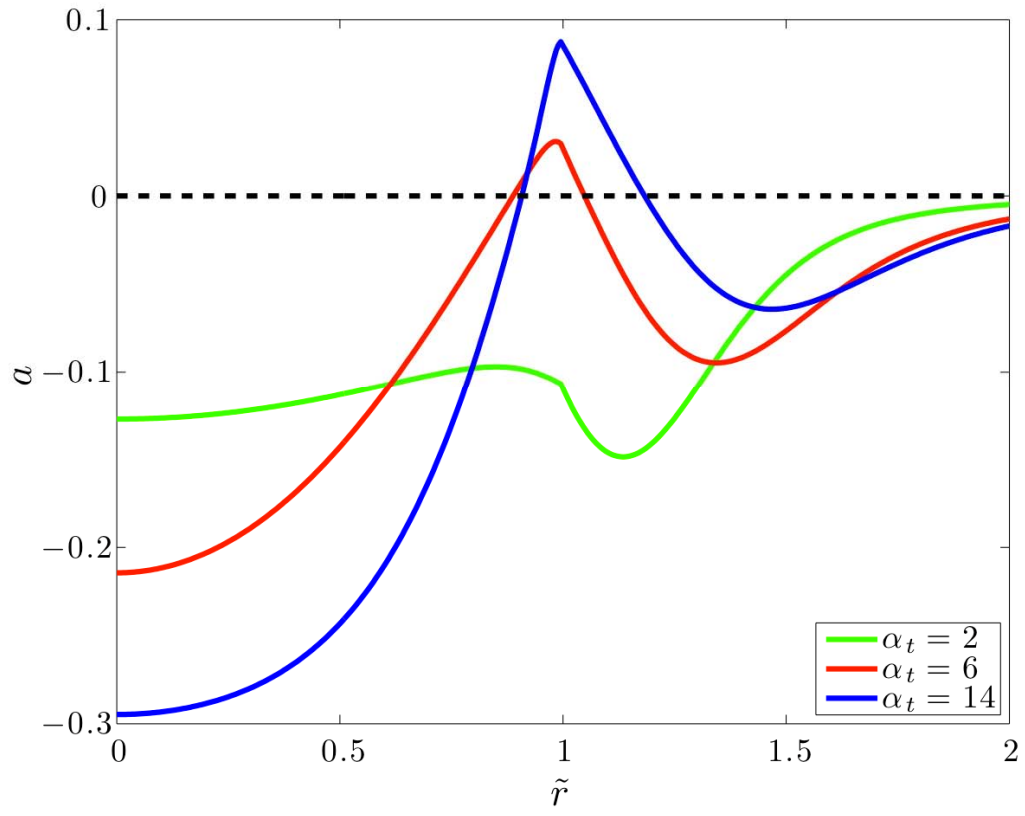


Fig. S5

