Supplementary Figure 3

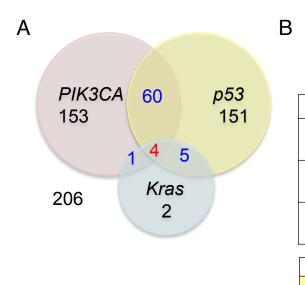


Table. The mutual exclusivity between <i>PIK3CA</i> ($p110\alpha$),
<i>p53,</i> and <i>Kras</i> in human breast cancers defined by the
odds ratio.

GENE	PIK3CA	p53	Kras
PIK3CA		0.5541126 (*** <i>p</i> =0.0007)	1.197183 (<i>p</i> =0.7698)
p53			3.463022 (* <i>p</i> =0.0461)
Kras			

No association (0.5 < Odds Ratio < 2) Tendency toward co-occurrence (2 < Odds Ratio < 10)

Supplementary Figure 3. Frequency of mutations in three genes, *PIK3CA*, *p53*, and *Kras*, in human breast cancers. (A) Diagram showing number of cases with mutations of three genes, *PIK3CA*, *p53*, and *Kras* in human breast cancers. (B) Table demonstrating mutual exclusivity between *PIK3CA*, *p53*, and *Kras* in human breast cancers. The odds ratio is indicated with *p* value that was derived via Fisher's Exact test. *P < 0.05, **P < 0.01, and ***P < 0.001. Data are based on published cancer genomics data collected from 582 breast cancer patients (COSMIC, <u>http://cancer.sanger.ac.uk/cancergenome/projects/cosmic/</u>).