

Supplementary Figures

High prevalence of the *MLH1* V384D germline mutation in patients with HER2-positive luminal B breast cancer

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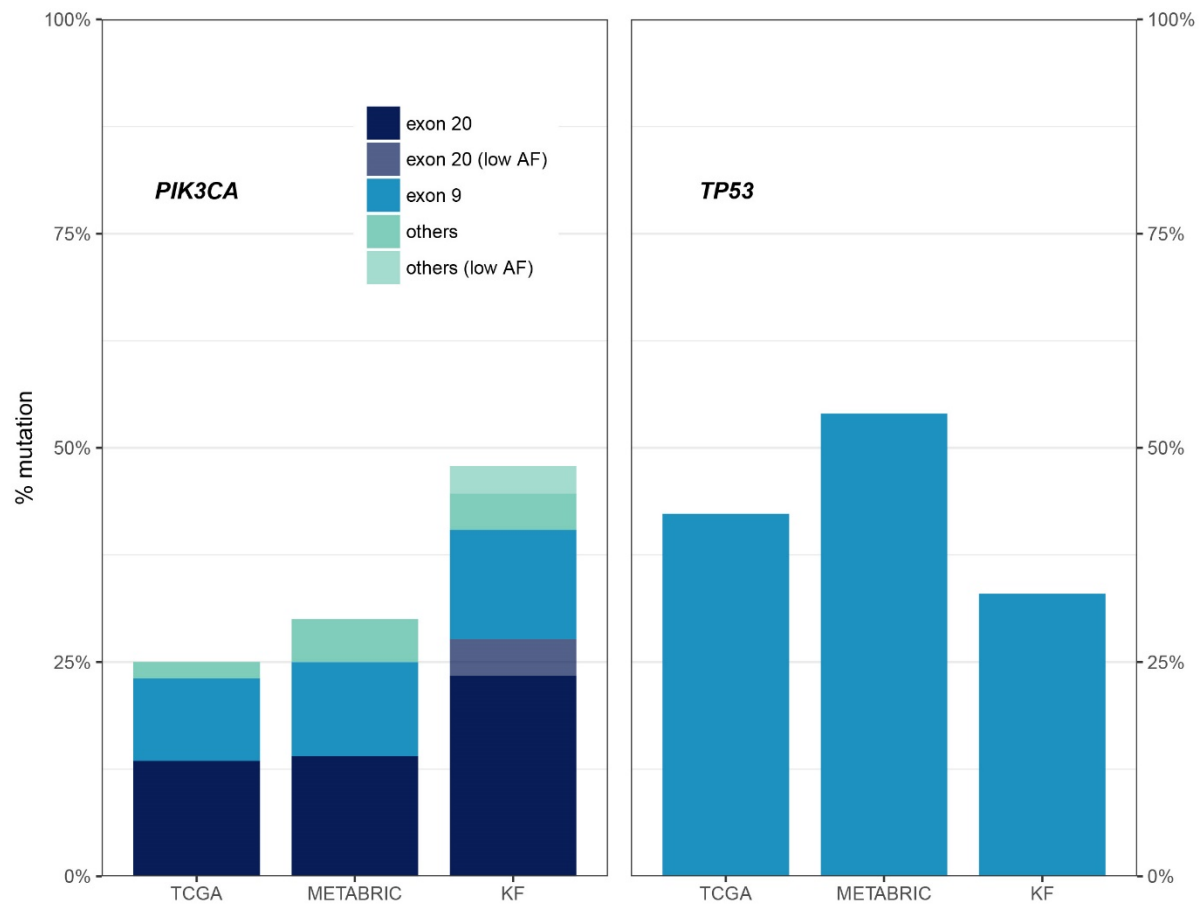
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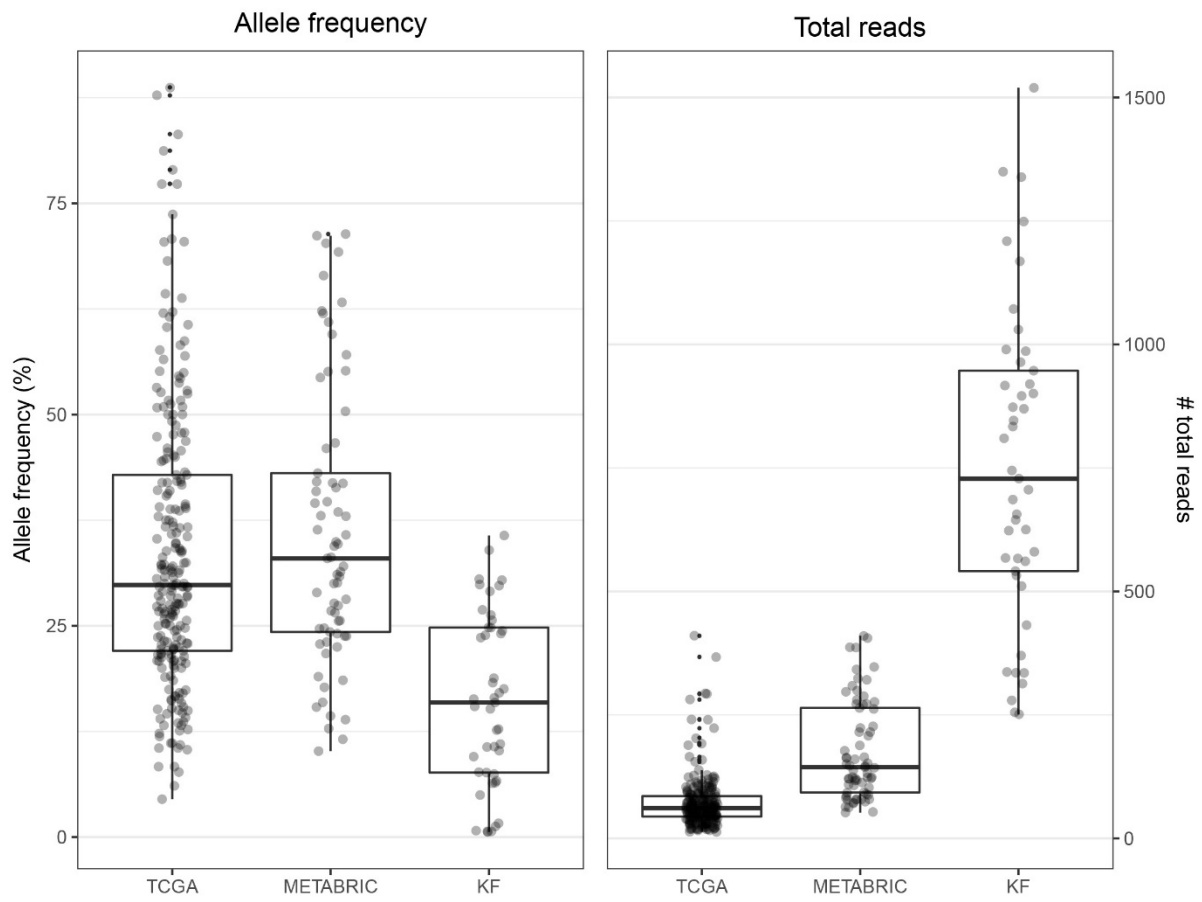
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Supplementary Figure 1. Comparing mutation rate of *PIK3CA* and *TP53* with large-scale studies.



Bar plots represent mutation rate in HER-2-positive luminal B breast cancer of TCGA, METABRIC, and present study (KF). Different mutation loci of *PIK3CA* are distinguished by different colors.

Supplementary Figure 2. Details of *PIK3CA* mutations in three populations.



Variant allele frequencies and total reads of *PIK3CA* mutations of TCGA, METABRIC, and present study (KF) are summarized by bar plot, and each dot represent mutated cases.