

Imprint of pregnancy and age at first pregnancy on the genomic landscape of breast cancer

Additional file 2: Figure S1-S3

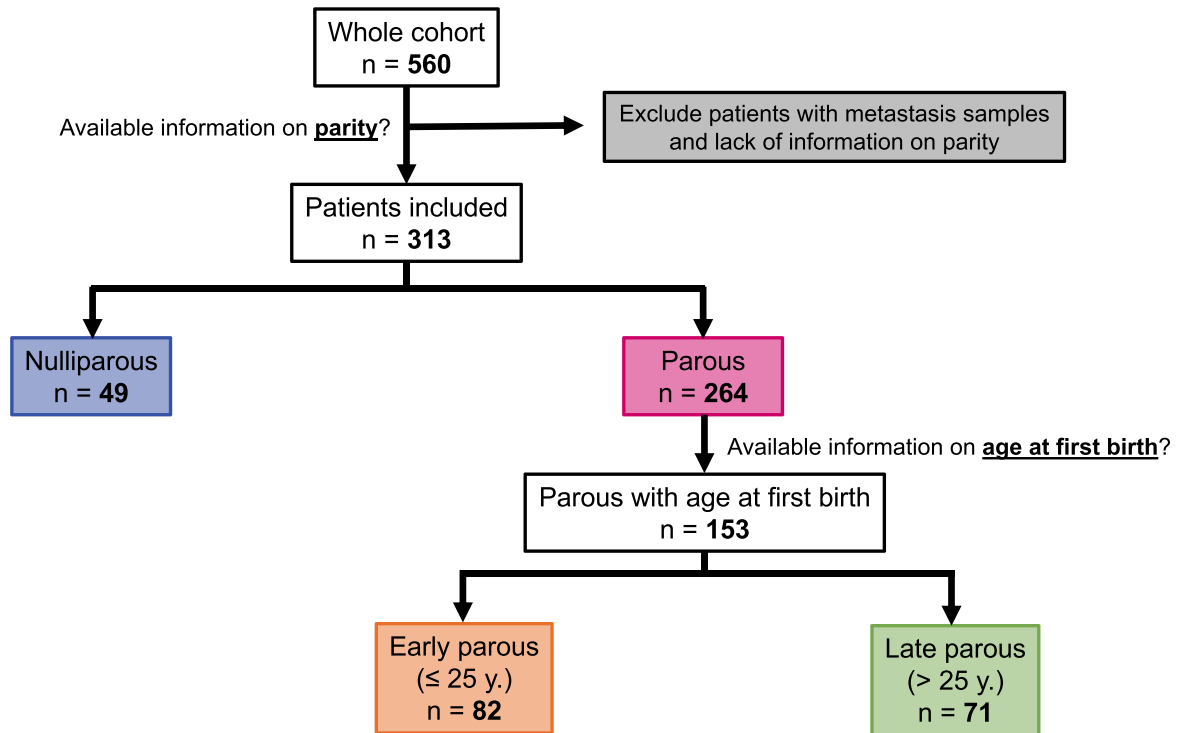


Figure S1. Flowchart summarizing the number of patients included in the analyses and the reasons for inclusion and exclusion

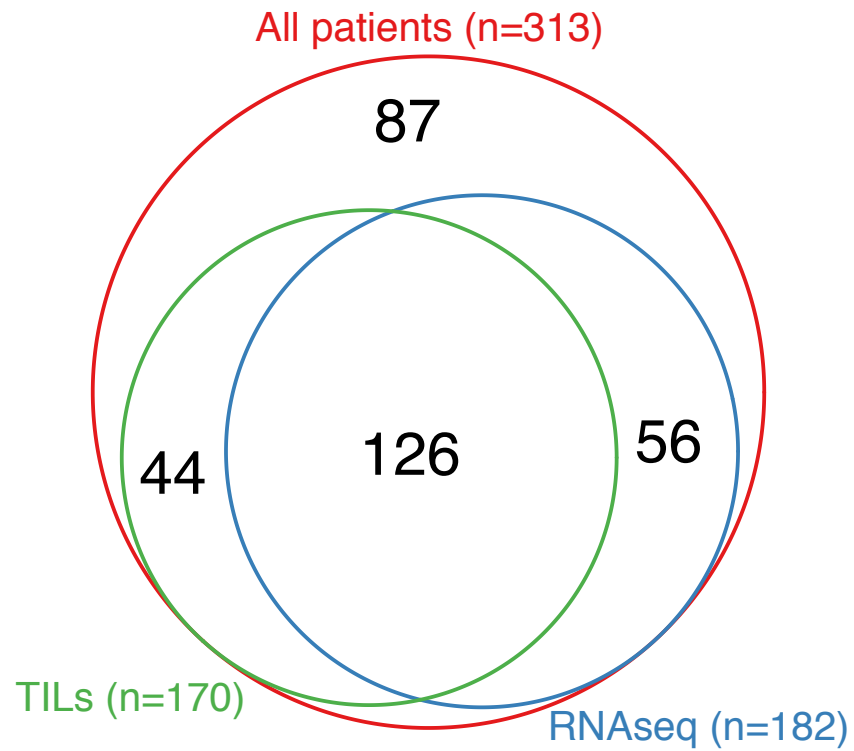


Figure S2. Venn diagram summarizing the number of patients with available data

313 patients (100%) had available somatic mutations and somatic copy number alterations (SCNAs) data (red circle) while 182 patients (58.1%) had available transcriptomic data (blue circle) and 170 patients (54.3%) had available information on TILs (green circle).

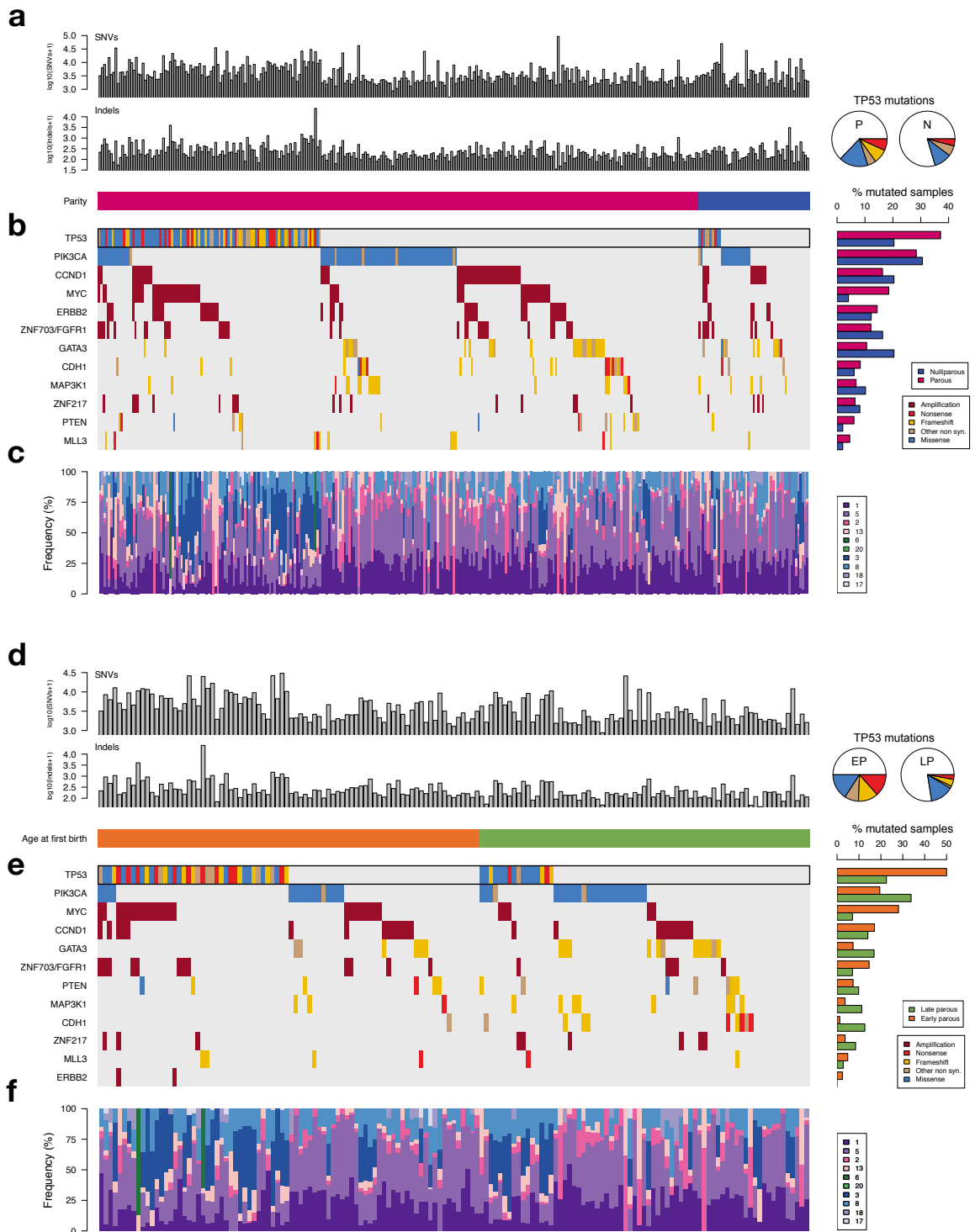


Figure S3. Genomic landscape of breast cancer according to pregnancy and age at first pregnancy

(a) Bar chart representing the absolute number of substitutions and indels in nulliparous and parous patients.

(b) Co-mutation plot showing genes harboring at least one non-silent mutation with a frequency of at least 5% across the whole cohort, and their corresponding frequencies in nulliparous and parous patients.

(c) Proportion of breast cancer substitution signatures in each sample. Signatures are colored according to broad biological groups: 1 and 5 are associated with clock-like processes, 2 and 13 are APOBEC-related, 20 and 26 are associated with mismatch- repair deficiency, 3 and 8 are associated with homologous-recombination deficiency.

(d) Bar chart representing the absolute number of substitutions and indels in early and late parous patients.

(e) Co-mutation plot showing genes harboring at least one non- silent mutation with a frequency of at least 5% across the whole cohort, and their corresponding frequencies in early and late parous patients.

(f) Proportion of breast cancer substitution signatures in each sample. Signatures are colored according to broad biological groups: 1 and 5 are associated with clock-like processes, 2 and 13 are APOBEC-related, 20 and 26 are associated with mismatch- repair deficiency, 3 and 8 are associated with homologous-recombination deficiency.