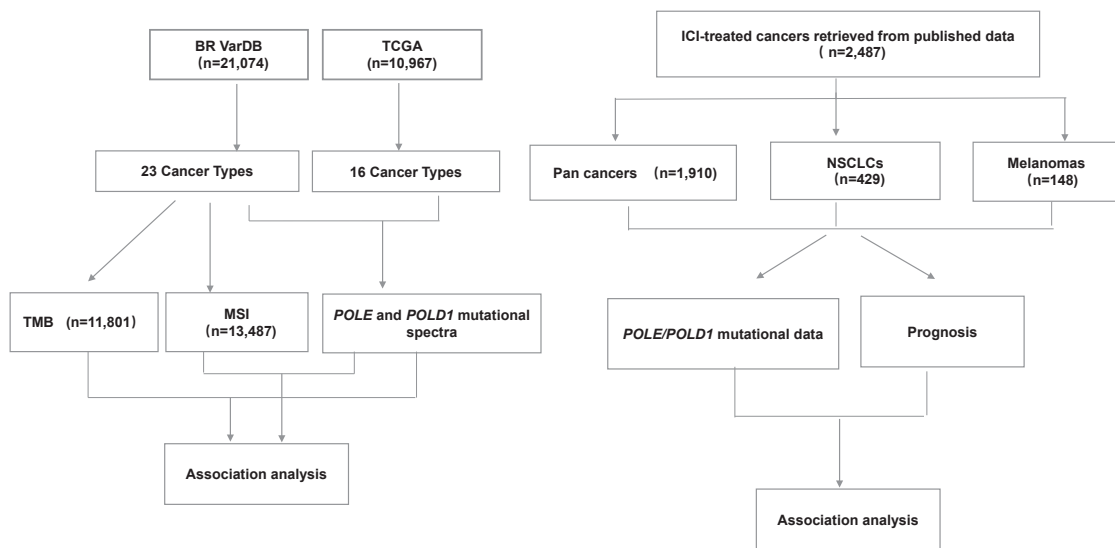
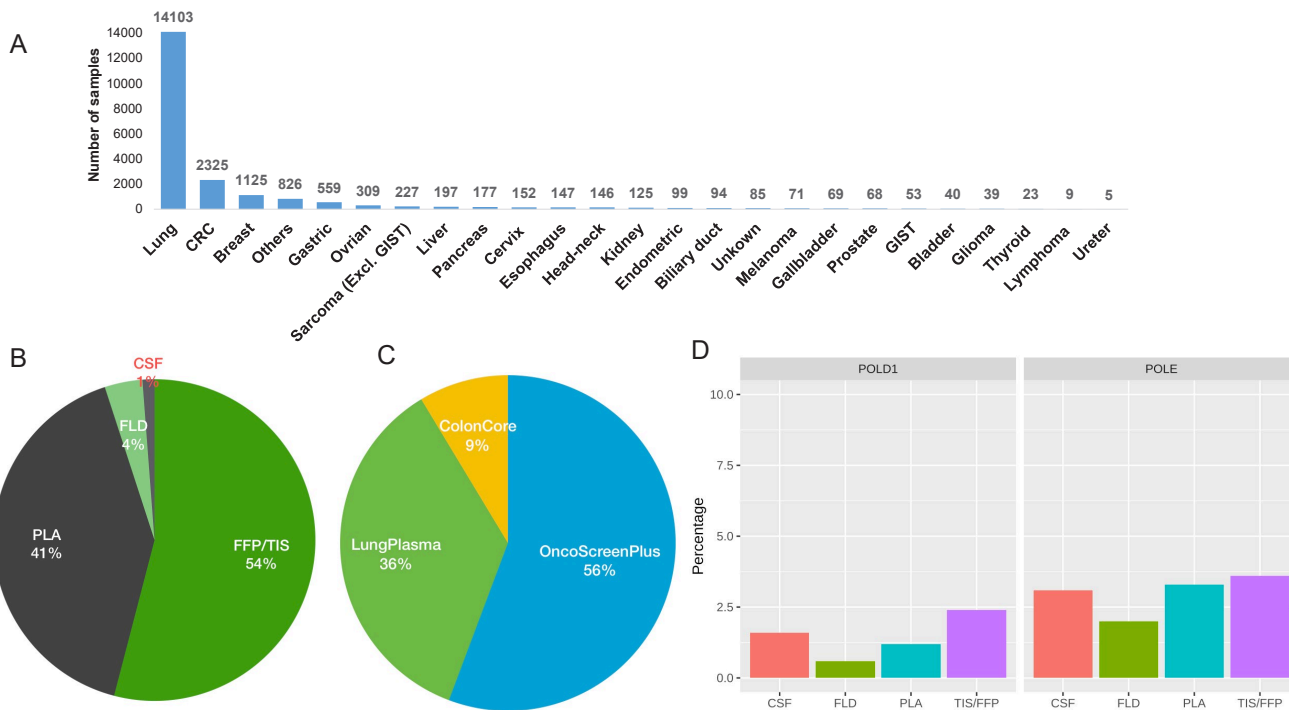


Supplementary



**Figure S1** Flowchart of the study design. BR VarDB, Burning Rock variant database; TMB, tumor mutational burden; MSI, microsatellite instability; ICI, immune checkpoint inhibitor; NSCLC, non-small cell lung cancer.



**Figure S2** The characterization of the retrieved BR VarDB samples (n=21,074). (A) Cancer types according to the number of samples. (B) Distribution of the different sample types. (C) Distribution of the next-generation sequencing panels used for genomic profiling. (D) Comparison of the frequency of *POLE/POLD1* mutation in different sample types. PLA, plasma; CSF, cerebrospinal fluid; FLD, pleural fluid; FFP/TIS, formalin fixed paraffin-embedded or surgically resected issues.