

**Figure S1. Differential landscape of somatic mutation burden between high and low ARGs score levels. (A)** The mutational landscape reflected that mutated events occurred more frequently in high ARGs-score samples than that in low group. Besides, the Chi-square test revealed that TP53, KMT2D, FOXA1 and PTEN especially harbored more mutants compared with that in group with low risk ARGs scores. **(B)** Scatter plot exhibiting the associations between ARGs scores and TMB levels. **(C)** Kaplan-Meier analysis indicating the differential PFS survival outcomes between TMB-high and TMB-low groups.