



S5 Fig. (A) Stacked bar plot for DNA mismatch repair status and best response after first-line chemotherapy based on the anatomic location. mismatch repair MMR, DNA mismatch repair genes. (B) Box plot presenting log-transformed CA19-9, TMB, and PD-L1 based on the anatomic location. (C) Kaplan-Meier plot for survival outcomes based on the anatomic location. p-value was calculated using the log-rank test. CA19-9, carcinoma antigen 19-9; CCA, cholangiocarcinoma; CPS, combined positive score; CR, complete response; GB, gallbladder cancer; MMR, mismatch repair; NA, not acquired; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; SD, stable disease; TMB, tumor mutation burden.