**Supplementary Figure Legends**

**Supplementary Fig. S1.** Sample origin by country/region.

**Supplementary Fig. S2.** *BRCA1/2* co-mutations in pancreatic adenocarcinoma.

**Supplementary Fig. S3.** Fusion genes in colorectal cancer.

**Supplementary Fig. S4.** *BRAF* alterations in colorectal cancer.

**Supplementary Fig. S5.** *ERBB2* mutations, *MET* alterations, and *EGFR* mutations in colorectal cancer.

**Supplementary Fig. S6.** *IDH1* variants in biliary tract cancer.

**Supplementary Fig. S7.** *ERBB2* alterations in biliary tract cancer.

**Supplementary Fig. S8.** *BRCA* variants’ VAF and *BRCA* co-mutations in biliary tract cancer.

**Supplementary Fig. S9.** Other HRR pathway genes and *ATM* mutations’ VAF in biliary tract cancer.

**Supplementary Fig. S10.** OncoKB level 3a/3b genes in biliary tract cancer.

**Supplementary Fig. S11.** Location of *ERBB2* activating mutations and *ERBB2* mutation variants in gastric/gastroesophageal junction adenocarcinoma.