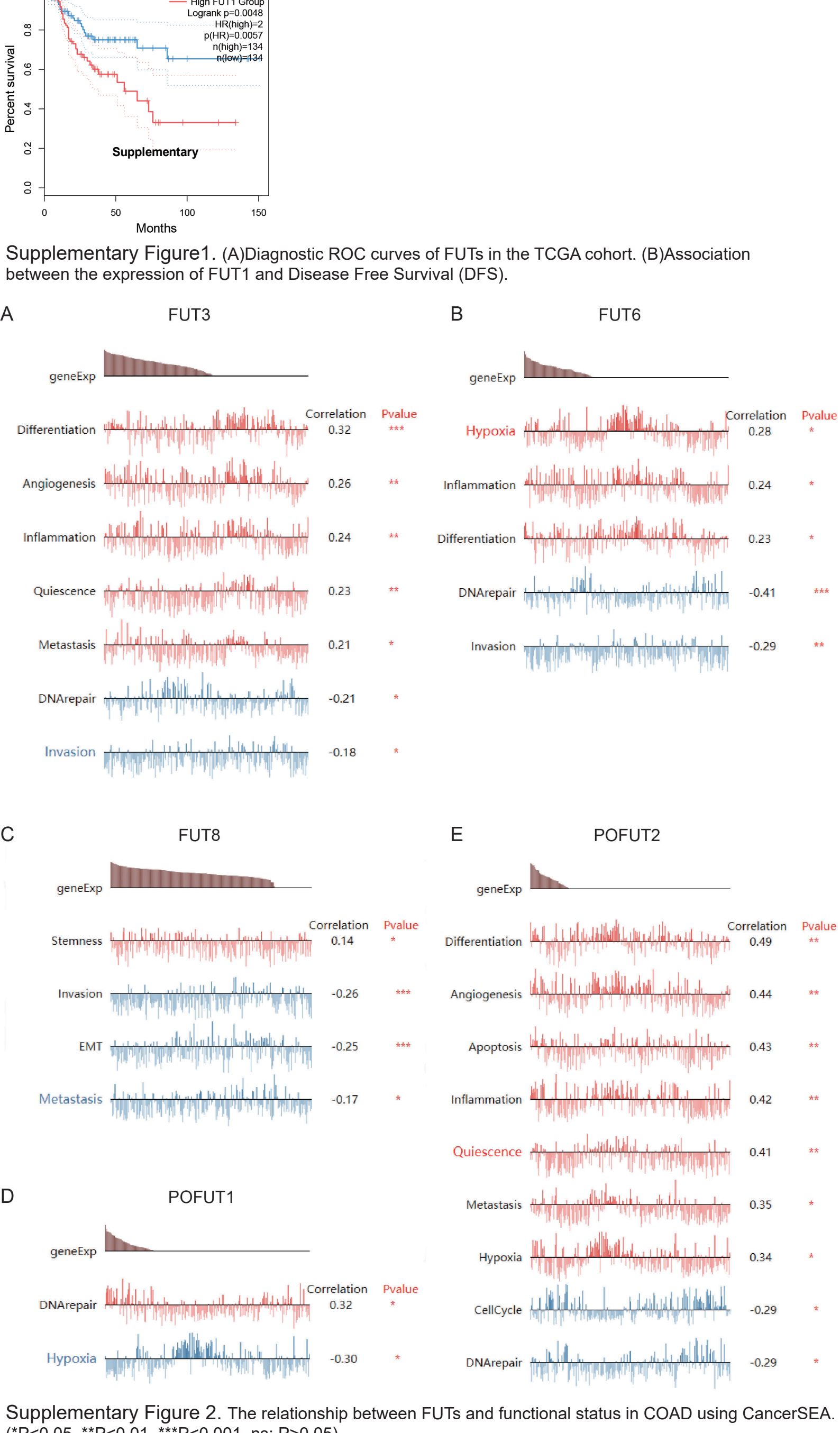
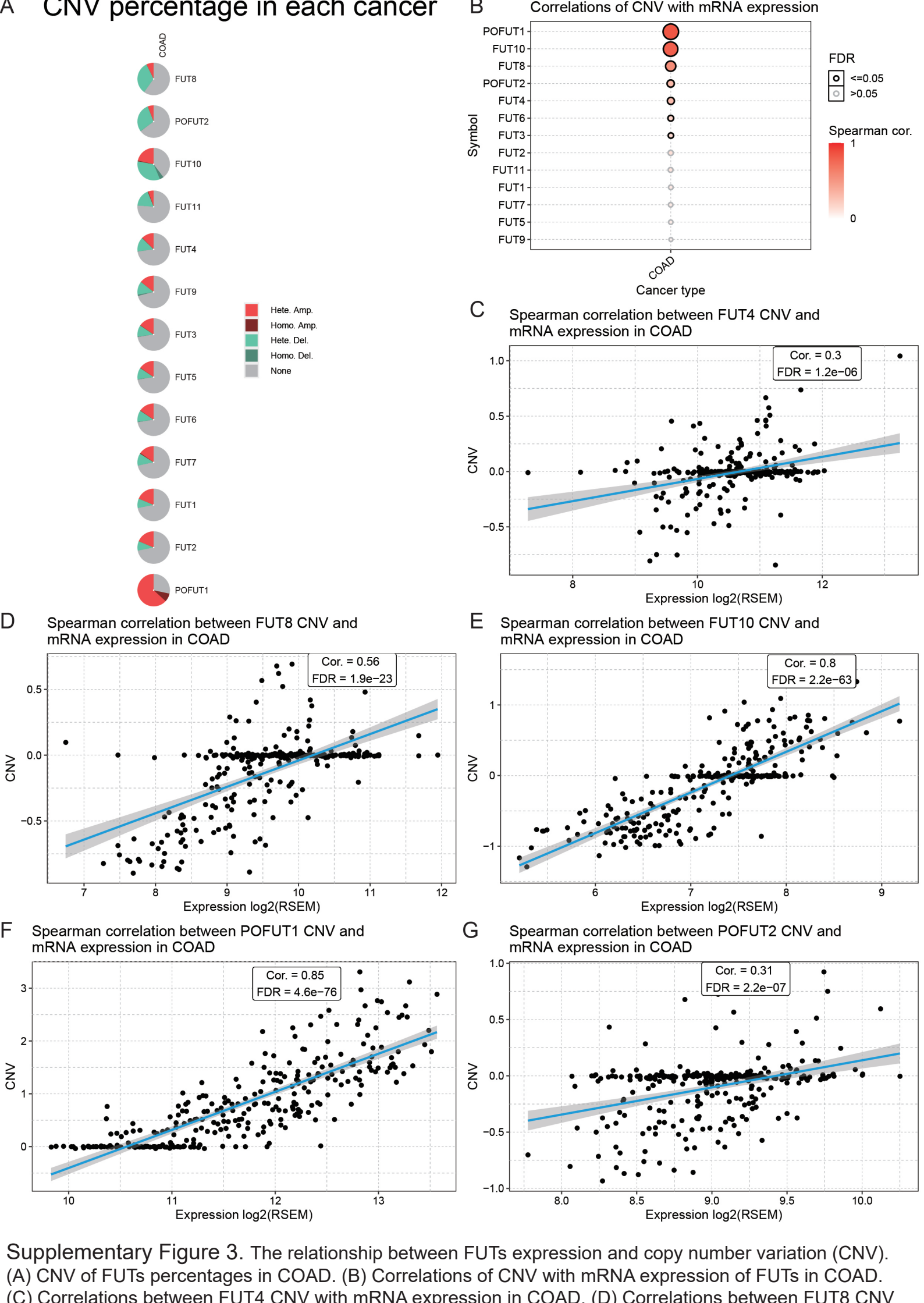


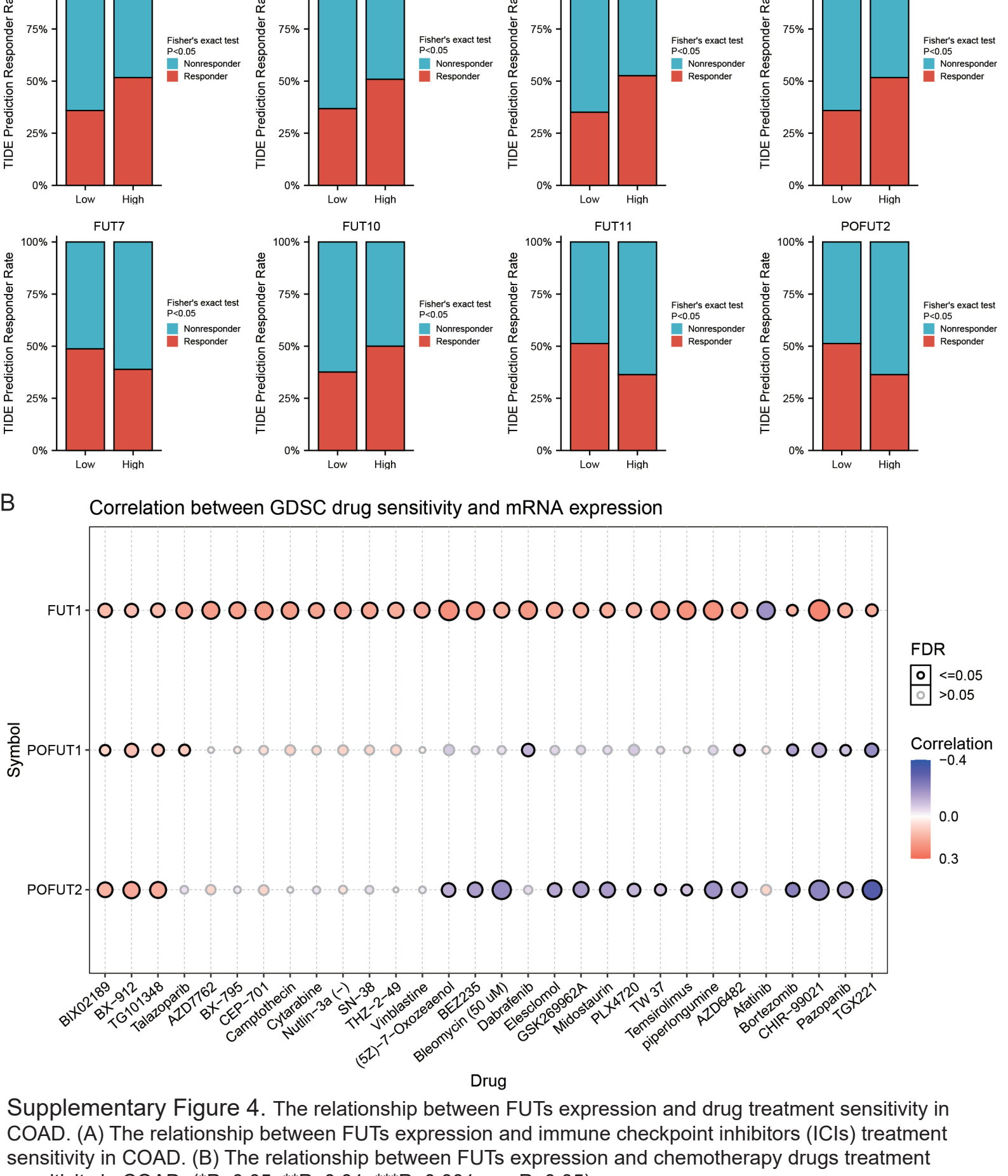
Supplementary Figure 1. (A) Diagnostic ROC curves of FUTs in the TCGA cohort. (B) Association between the expression of FUT1 and Disease Free Survival (DFS).



Supplementary Figure 2. The relationship between FUTs and functional status in COAD using CancerSEA. (*P<0.05, **P<0.01, ***P<0.001, ns: P>0.05).



Supplementary Figure 3. The relationship between FUTs expression and copy number variation (CNV). (A) CNV of FUTs percentages in COAD. (B) Correlations of CNV with mRNA expression of FUTs in COAD. (C) Correlations between FUT4 CNV and mRNA expression in COAD. (D) Correlations between FUT8 CNV with mRNA expression in COAD. (E) Correlations between FUT10 CNV with mRNA expression in COAD. (F) Correlations between POFUT1 CNV with mRNA expression in COAD. (G) Correlations between POFUT2 CNV with mRNA expression in COAD.



Supplementary Figure 4. The relationship between FUTs expression and drug treatment sensitivity in COAD. (A) The relationship between FUTs expression and immune checkpoint inhibitors (ICIs) treatment sensitivity in COAD. (B) The relationship between FUTs expression and chemotherapy drugs treatment sensitivity in COAD. (*P<0.05, **P<0.01, ***P<0.001, ns: P>0.05).

Supplementary Table 1 Primer information

human	
FUT1	
forward primer	CTTCCTGCTAGTCTGTGTCCT
reverse primer	ATTGGGGTAGACAGTCCAGGT
POFUT1	
forward primer	AACCAGGCCGATCACTTCTTG
reverse primer	GTTGGTGAAAGGAGGCTTGTG
POFUT2	
forward primer	ATGGCGAACTCAGCTTCG
reverse primer	AGAGCGGATTCGGATATAGACA
MUC2	
forward primer	GAGGCAGAACCCGAAACC
reverse primer	GGCGAAGTTGTAGTCGAGAG
GAPDH	
forward primer	CTGGGCTACACTGAGCACC
reverse primer	AAGTGGTCGTTGAGGGCAATG
mouse	
FUT1	
forward primer	TACCTCATCCATTGCAGACATCT
reverse primer	CTCCTGGGGTATTGTCCAAG
POFUT1	
forward primer	GGCCGGTTACCTGCTCTAC
reverse primer	GCAGGCTTGTGATGTTGGTATTC
POFUT2	
forward primer	ACCTCTGTATGATGCAACCC
reverse primer	ACTCTCAGTCTTCAACAGCG
MUC2	
forward primer	AGGGCTCGGAATCCAGAAA
reverse primer	CCAGGGAATCGGTAGACATCG
GAPDH	
forward primer	AGGTCGGTGTGAACGGATTG
reverse primer	GGGGTCGTTGATGGCAACA