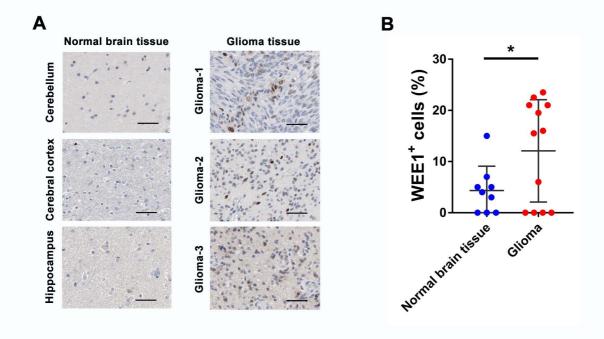
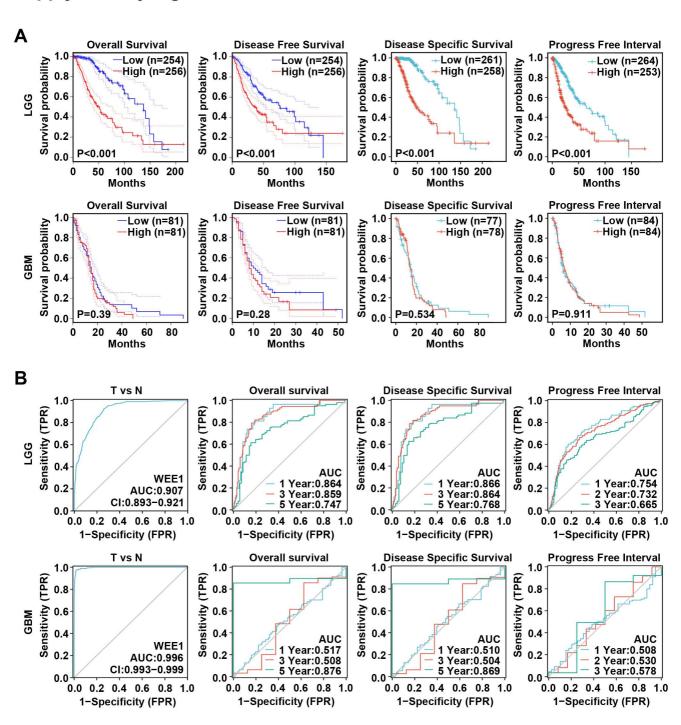
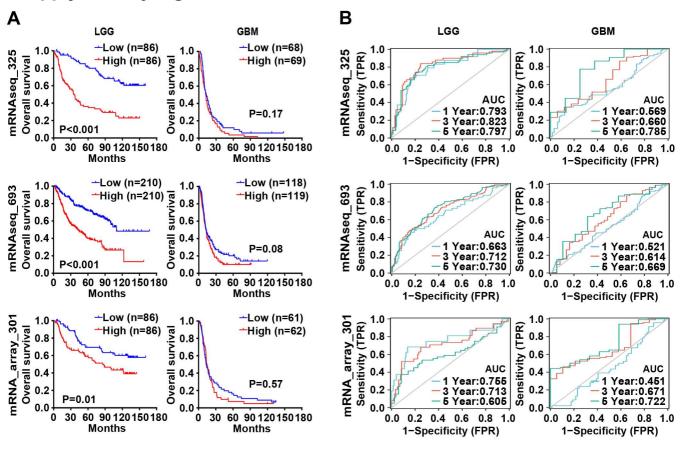
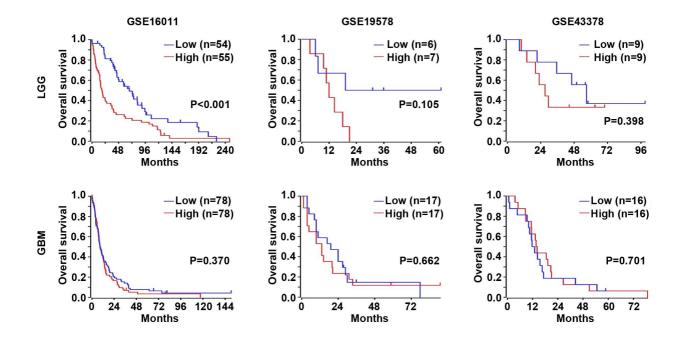
Cancercode	p value		Hazard Ratio (95%)
ГСGA-GBMLGG(N=619)	2.1e-59	[- <b>●</b> -I	2.18(1.97,2.41)
ΓCGA-LGG(N=474)	8.9e-27	F- <b>●</b> -H	2.11(1.83,2.44)
ΓCGA-MESO(N=84)	7.9e-5	}	1.63(1.28,2.09)
ΓCGA-LAML(N=209)	1.6e-4	[ <b>-</b> ]	1.41(1.18,1.68)
TCGA-ACC(N=77)	4.5e-4	} <del> </del>	2.10(1.38,3.22)
TCGA-LIHC(N=341)	3.9e-3	I <b>●</b> I	1.29(1.08,1.53)
ΓARGET-ALL-R(N=99)	0.02	;⊦ <b>-</b>	1.37(1.05,1.79)
TCGA-PCPG(N=170)	0.03		2.38(1.10,5.14)
CCGA-PAAD(N=172)	0.06	<b>[</b>	1.30(0.99,1.72)
CCGA-KICH(N=64)	0.08	H	1.81(0.93,3.50)
CCGA-GBM(N=144)	0.17	ŀ÷·●···I	1.16(0.94,1.44)
CCGA-LUSC(N=468)	0.18	I∳•●••I	1.12(0.95,1.33)
CCGA-STES(N=547)	0.30	₽ <mark>∙</mark> ∙+	1.08(0.93,1.24)
CCGA-UVM(N=74)	0.33	[ <del>-</del>	1.26(0.80,1.99)
CCGA-BLCA(N=398)	0.35	I- <mark>;●</mark> I	1.08(0.92,1.28)
ΓCGA-KIPAN(N=855)	0.36	I <mark>.</mark> ⊕-I	1.06(0.94,1.19)
TCGA-KIRP(N=276)	0.37	[ <del> </del>	1.15(0.85,1.54)
TARGET-WT(N=80)	0.37		1.22(0.79,1.86)
CCGA-THCA(N=501)	0.37	<del> </del> <del> </del>	1.23(0.79,1.92)
CARGET-LAML(N=142)	0.38	<mark></mark>	1.11(0.88,1.40)
CCGA-ESCA(N=175)	0.40	F-∳ <b>-</b>	1.12(0.86,1.45)
CCGA-SARC(N=254)	0.43	I- <mark>:●</mark> I	1.07(0.90,1.29)
CCGA-DLBC(N=44)	0.50	ļ <del> </del>	1.23(0.68,2.24)
CCGA-BRCA(N=1044)	0.52	I- <del>.</del>	1.06(0.89,1.27)
CCGA-LUAD(N=490)	0.57	[- <mark>-∳-</mark> -]	1.05(0.88,1.26)
CCGA-PRAD(N=492)	0.65	ļļ- <b>-</b>	1.15(0.63,2.09)
ГСGA-SKCM-P(N=97)	0.91		1.02(0.72,1.45)
CCGA-STAD(N=372)	0.97	} <del>•</del>	1.00(0.82,1.22)
CCGA-UCS(N=55)	0.97		1.01(0.66,1.53)
CARGET-ALL(N=86)	0.99	[ <b>-</b> ]	1.00(0.75,1.33)
CCGA-KIRC(N=515)	0.01	<b>-</b>	0.82(0.70,0.96)
CGA-READ(N=90)	0.03		0.51(0.28,0.93)
CCGA-SKCM(N=444)	0.08	F·●·Å	0.88(0.75,1.02)
CCGA-COADREAD(N=368)	0.11	J	0.75(0.53,1.06)
CGA-OV(N=407)	0.24	F••i⊣	0.92(0.80,1.06)
CGA-SKCM-M(N=347)	0.28	l+-•	0.91(0.77,1.08)
CCGA-HNSC(N=509)	0.31	F•€id	0.93(0.81,1.07)
CGA-CESC(N=273)	0.40	1	0.90(0.70,1.15)
CGA-UCEC(N=166)	0.50	1	0.90(0.67,1.22)
CGA-CHOL(N=33)	0.52	ļ	0.85(0.52,1.40)
CCGA-THYM(N=117)	0.56		0.80(0.38,1.69)
CARGET-NB(N=151)	0.62	1	0.94(0.74,1.20)
CCGA-COAD(N=278)	0.02		0.92(0.61,1.40)
TCGA-TGCT(N=128)	0.71	1	0.99(0.23,4.24)

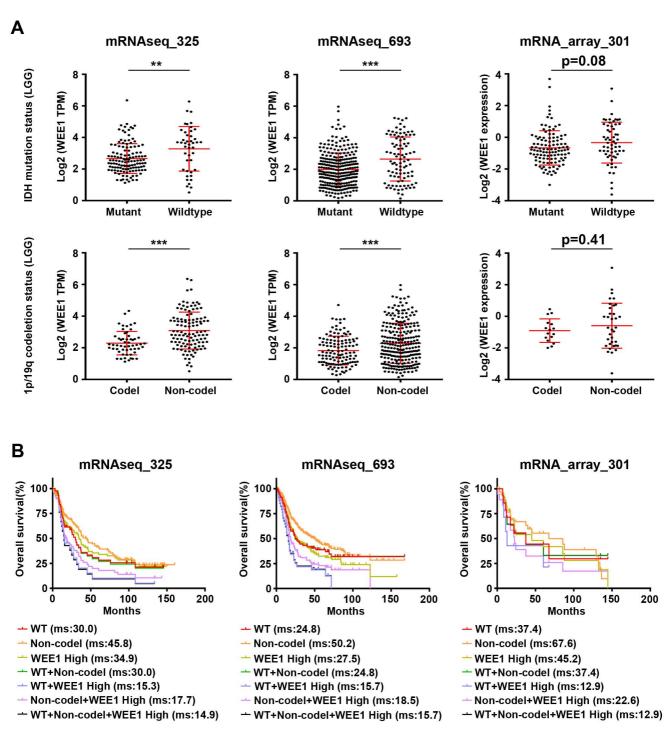
log<sub>2</sub>Hazard Ratio (95%CI)

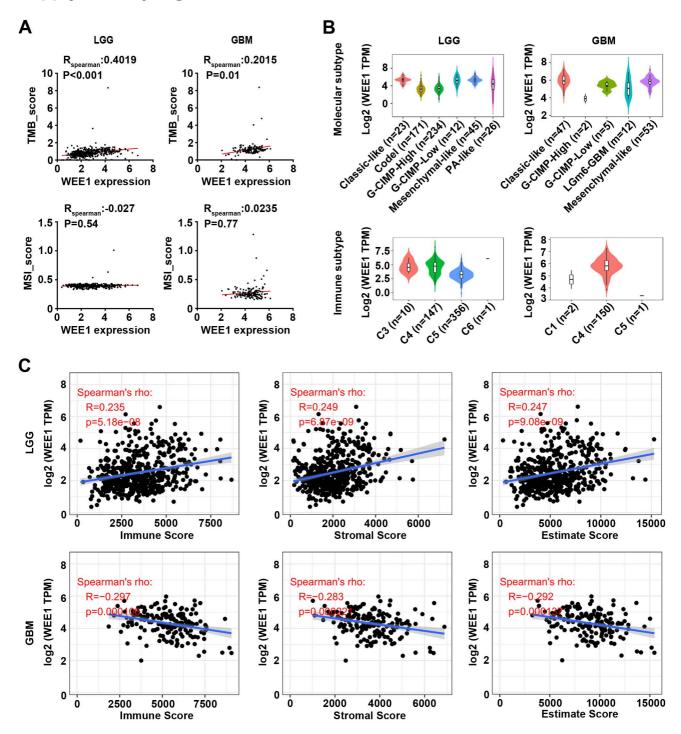


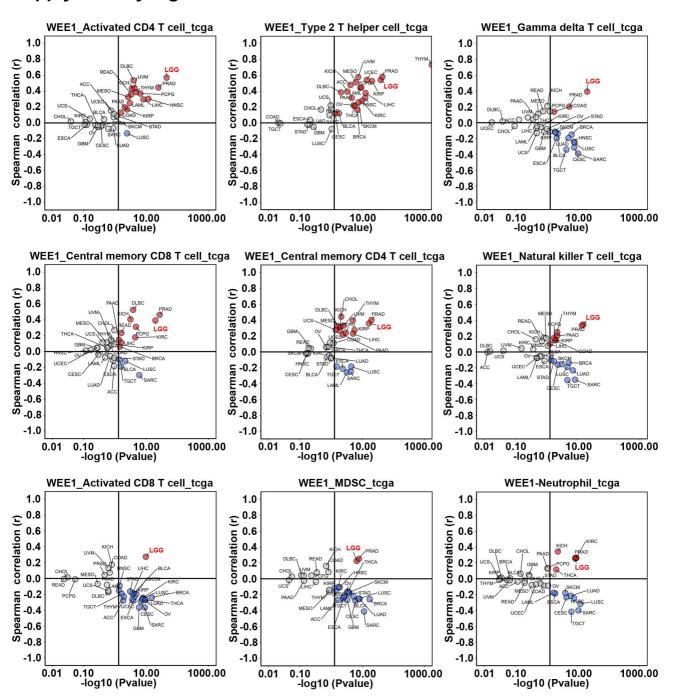


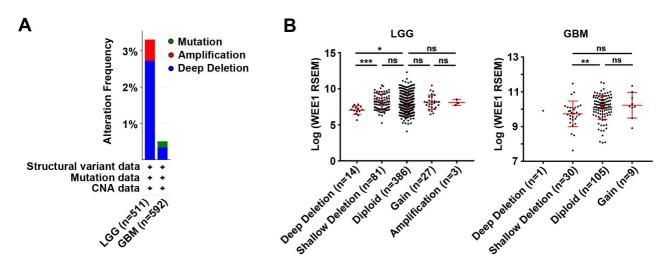


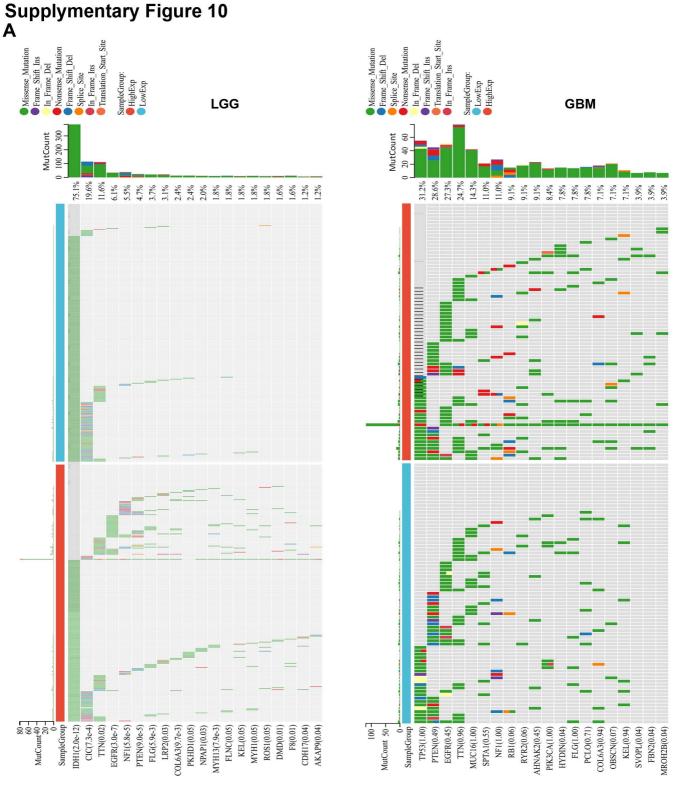




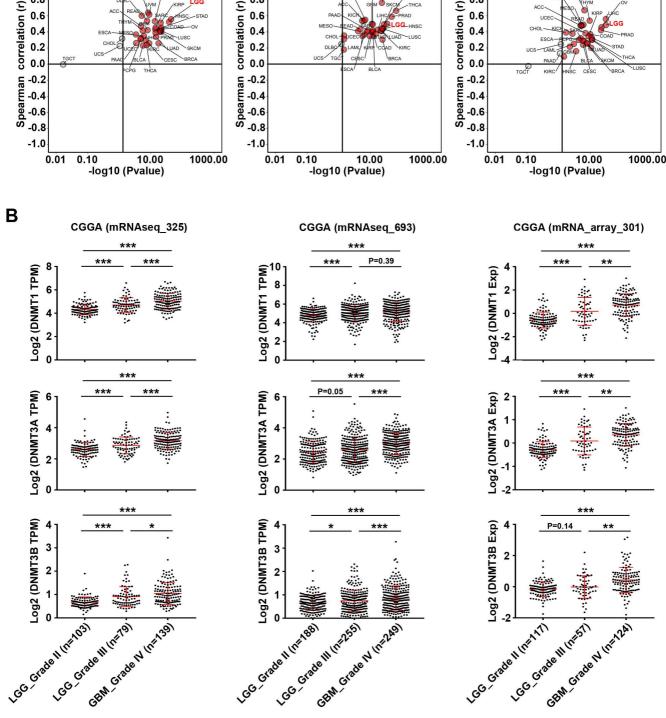


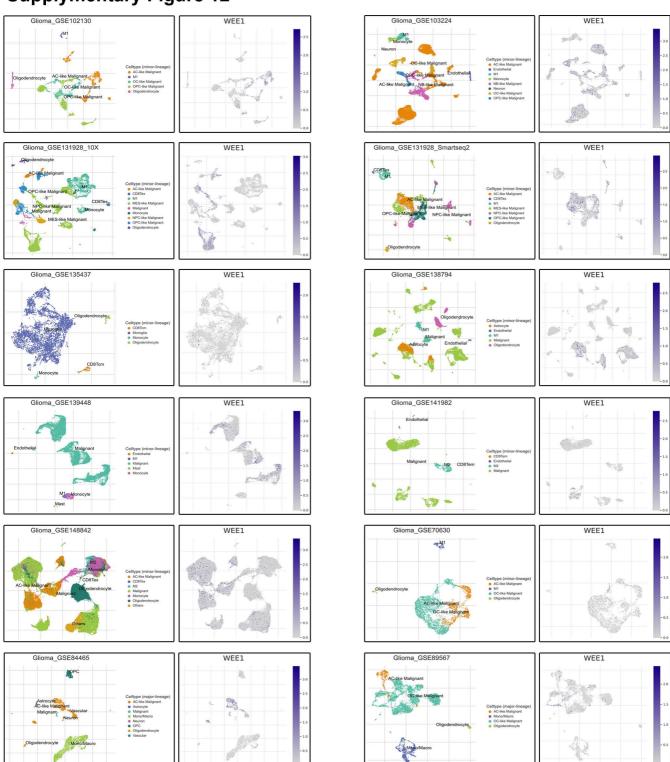






**Supplymentary Figure 11** WEE1\_DNMT1\_tcga WEE1\_DNMT3A\_tcga WEE1\_DNMT3B\_tcga 1.0 1.0 1.0 0.8 0.8 0.8 Spearman correlation (r) correlation (r) correlation (r) 0.6 0.6 0.6 0.4 0.4 0.4 ESCA 0.2 0.2 0.2 UCS TG PA 0.0 0.0 0.0 0.2-0.4 -0.4-0.6 -0.6-0.8 -0.2 Spearman -0.2 -0.4 -0.4 -0.6 -0.6 -0.8 -0.8 -1.0 -1.0 -1.00.10 10.00 -log10 (Pvalue) 0.10 10.00 -log10 (Pvalue) 0.10 10.00 -log10 (Pvalue) 1000.00 1000.00 1000.00 0.01 0.01 В CGGA (mRNA\_array\_301) CGGA (mRNAseq 325) CGGA (mRNAseq 693) P=0.39 Log2 (DNMT1 TPM) Log2 (DNMT1 TPM) Log2 (DNMT1 Exp) 6 \*\*\* \*\*\* \*\*\* P=0.05 Log2 (DNMT3A TPM) Log2 (DNMT3A TPM) Log2 (DNMT3A Exp) \*\*\* P=0.14 3 3 2





#### **Supplymentary Figure 13** B atrial cardiac muscle tissue morphogenesis cytoplasmic sequestering of protein Genes correlated with WEE1 negative regulation of astrocyte differentiation NOG Toll-like receptor binding MYD88 Top 500 genes-related with DFS Top 500 genes-related with OS lactate transmembrane transporter activity 3109 Toll signaling pathway MYD88 5-phosphoribose 1-diphosphate... DNA-binding transcription... regulation of cell migration SYDE1;FLNA regulation of neutrophil migration MYD88 protein localization to bicellular... 500 500 positive regulation of IL-23 production MYD88 Core:24 adenylate cyclase-inhibiting dopamine... wound healing extracellular exosome somatic stem cell population maintenance actin cytoskeleton reorganization SYDE1;FLNA in utero embryonic development 5748 epithelial to mesenchymal transition NOG;FLNA peptidyl-lysine hydroxylation **DEGs in LGG vs normal** -Log10 (Pvalue) C WEE1 MYD88 sincorplot LGG WEE1 FLNA sincorplot LGG WEE1 NOG sincorplot LGG P<0.001 P<0.001 P<0.001 6 R=0.468 R=0.416R = -0.304og2 (WEE1 TPM) log2 (WEE1 TPM) log2 (WEE1 TPM) -2 2.5 5.0 7.5 2.5 5.0 7.5 0.0 2.5 5.0 7.5 0.0 0.0 log2 (MYD8 TPM) log2 (FLNA TPM) log2 (NOG TPM) WEE1 MYD88 pancorplot WEE1 FLNA pancorplot WEE1 NOG pancorplot 1.0 1.0 1.0 Spearman correlation (r) correlation (r) Spearman correlation (r) 0.8 0.8 0.8 0.6 0.6 0.6 0.4 0.4 0.4 0.2 0.2 0.2 0.0 0.0 0.0 -0.2 -0.2 Spearman -0.2-0.4 -0.4 -0.4 -0.6 -0.6 -0.6 -0.8 -0.8 -0.8 -1.0 -1.0 -1.0 0.01 0.10 10.00 1000.00 0.01 0.10 10.00 1000.00 0.01 0.10 10.00 1000.00 -log10 (Pvalue) -log10 (Pvalue) -log10 (Pvalue) D MYD88 **FLNA** NOG 1.0 1.0 Low (n=257) Low (n=257) 1.0 Low (n=257) High (n=257) High (n=257) High (n=257) 0.8 0.8 0.6 0.6 0.6

