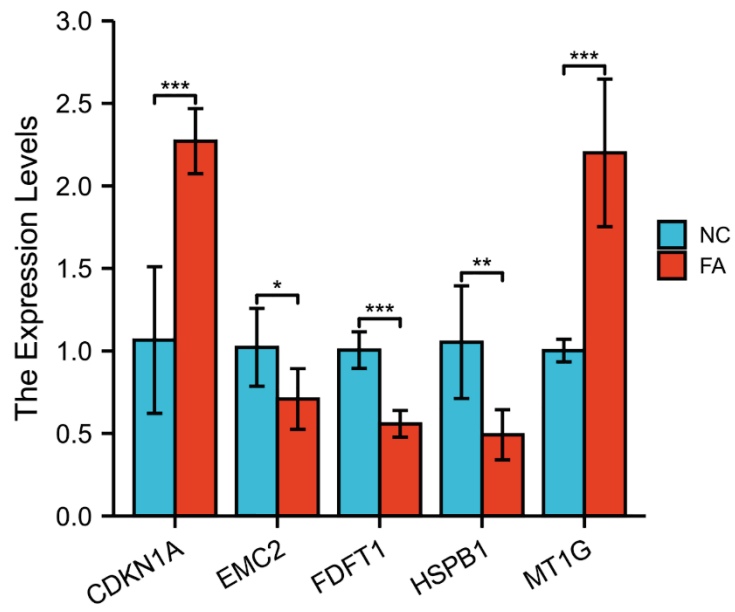
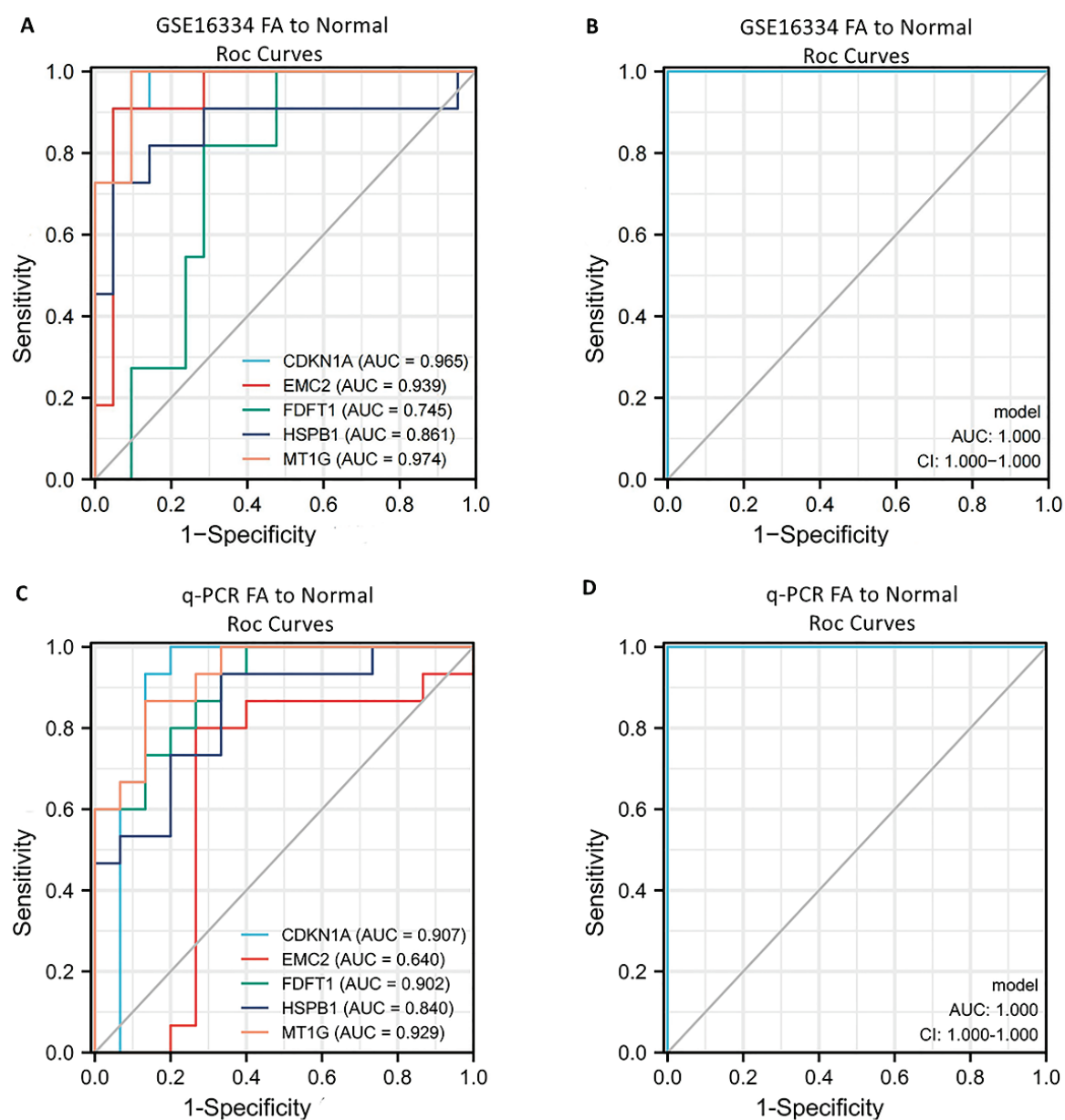


Supplementary Table 1. Top 3 gene ontology (GO) terms and a pathway (in the order of increasing P.adjust). BP, biological pathways; CC, cellular components; MF, molecular function.

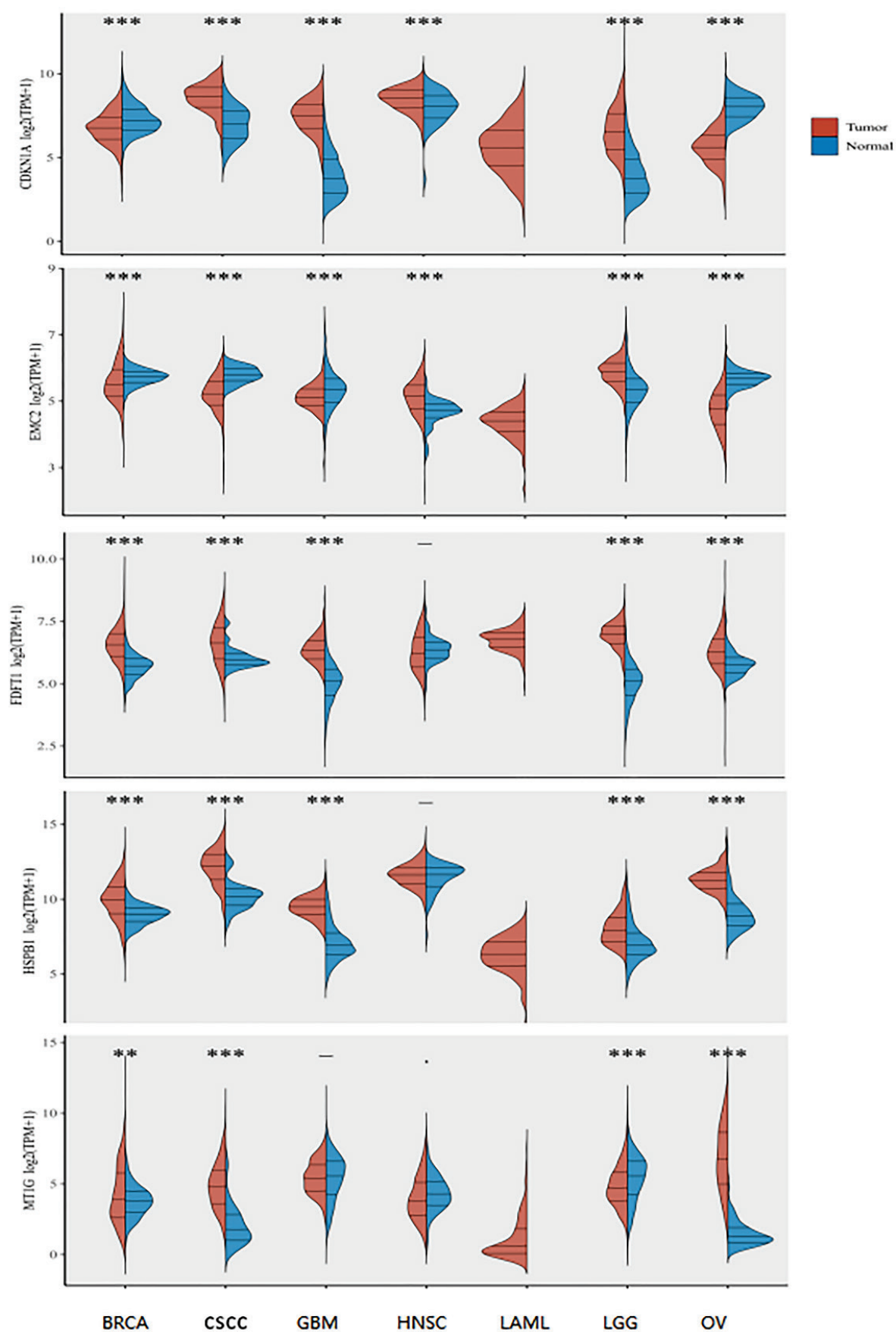
Ontology	ID	Description	p-value	adjust p-value	q-value	rank
<i>BP</i>	GO:0043312	neutrophil degranulation	5.13e-50	1.51e-46	1.26e-46	1
<i>BP</i>	GO:0002283	neutrophil activation involved in immune response	8.00e-50	1.51e-46	1.26e-46	2
<i>BP</i>	GO:0042119	neutrophil activation secretory granule	3.44e-49	3.74e-46	3.12e-46	3
<i>CC</i>	GO:0034774	lumen	3.83e-35	1.54e-32	1.37e-32	1
<i>CC</i>	GO:0060205	cytoplasmic vesicle lumen	4.77e-34	7.40e-32	6.57e-32	2
<i>CC</i>	GO:0031983	vesicle lumen	5.51e-34	7.40e-32	6.57e-32	3
<i>MF</i>	GO:0030246	carbohydrate binding	1.38e-07	7.85e-05	6.78e-05	1
<i>MF</i>	GO:0016209	antioxidant activity	1.25e-05	0.003	0.003	2
<i>MF</i>	GO:0050786	RAGE receptor binding	2.22e-05	0.003	0.003	3
<i>KEGG</i>	hsa00500	Starch and sucrose metabolism	3.52e-06	8.21e-04	7.97e-04	1



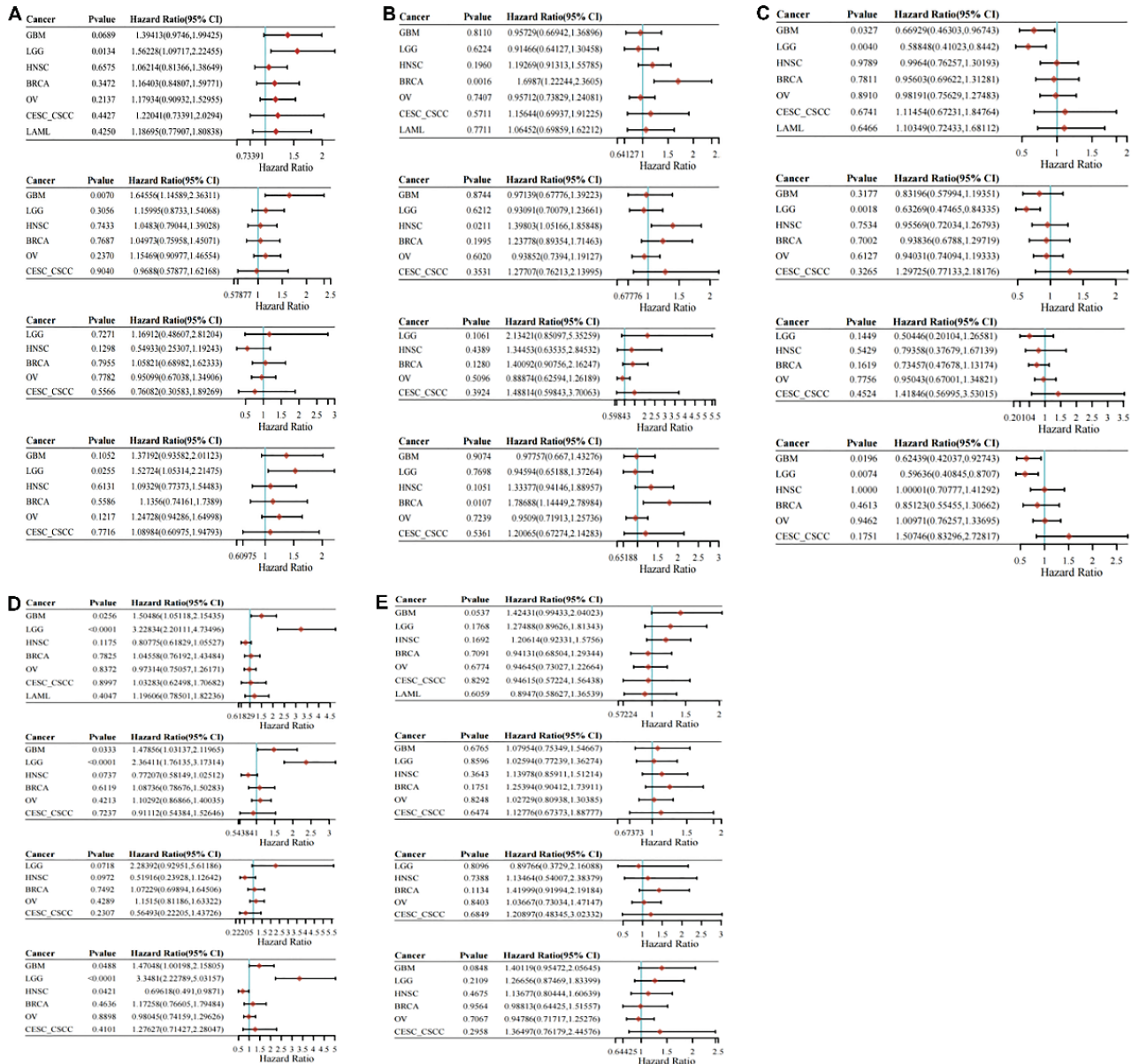
Supplementary Figure 1. Verification of mRNA expression. Gene expression in normal (n=5) and FA (n=5) tissues was evaluated by qPCR and normalised against glyceraldehyde-3-phosphate dehydrogenase (GAPDH) expression. *p < 0.05, **p < 0.01, ***p < 0.001.



Supplementary Figure 2. Diagnostic values of CDKN1A, EMC2, FDFT1, HSPB1 and MT1G in FA. **(A)** univariate Roc model(GSE16334); **(B)** joint Roc model(GSE16334); **(C)** univariate Roc model(q-PCR); **(D)** joint Roc model(q-PCR).



Supplementary Figure 3. Expression patterns of CDKN1A, EMC2, FDFT1, HSPB1 and MT1G in pan-cancer. The expression patterns of CDKN1A, EMC2, FDFT1, HSPB1 and MT1G were analyzed by using TCGA and GTEx data. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.



Supplementary Figure 4. Prognostic roles of CDKN1A, EMC2, FDF1, HSPB1 and MT1G in pan-cancer. **(A-E)** The p-value, risk coefficient (HR) and confidence interval of CDKN1A, EMC2, FDF1, HSPB1 and MT1G in multiple tumours are analyzed by using TCGA database.