

## SUPPLEMENTARY TABLES

**Supplementary Table 9. The correlations between the expression of hub genes and METTL3 expression in HCC.**

Gene	R	P value	Gene	R	P value
MYBL2	0.41	<0.001	KIF18B	0.54	<0.001
FOXM1	0.51	<0.001	TACC3	0.41	<0.001
TRIP12	0.53	<0.001	CCNB2	0.5	<0.001
HECTD1	0.52	<0.001	CDT1	0.43	<0.001
SKP1	0.31	<0.001	SPC25	0.45	<0.001
FBXW9	0.33	<0.001	CDC25C	0.4	<0.001
CBLB	0.43	<0.001	ASF1B	0.4	<0.001
FBXL16	0.062	0.24	UBE3A	0.4	<0.001
KLHL25	0.24	<0.001	FBXL14	0.41	<0.001
ESPL1	0.48	<0.001	ASB8	0.48	<0.001
KLHL13	0.22	<0.001	DTX3L	0.4	<0.001
CDCA5	0.53	<0.001	FZR1	0.39	<0.001
SIAH2	0.18	<0.001	MGRN1	0.34	<0.001
FBXL15	0.1	0.047	TRAIP	0.5	<0.001
KIFC1	0.55	<0.001	TROAP	0.46	<0.001

**Supplementary Table 10. The associations between the expression of hub genes and overall survival of HCC patients.**

Gene	HR (95%CI)	P value	Gene	HR (95%CI)	P value
MYBL2	2.29 (1.62-3.24)	<0.001	KIF18B	2.13 (1.49-3.03)	<0.001
FOXM1	1.91 (1.33-2.74)	<0.001	TACC3	1.8 (1.27-2.55)	<0.001
TRIP12	1.27 (0.86-1.88)	0.23	CCNB2	1.91 (1.28-2.87)	0.0013
HECTD1	0.63 (0.44-0.89)	0.008	CDT1	2.05 (1.45-2.9)	<0.001
SKP1	0.75 (0.53-1.08)	0.12	SPC25	2.13 (1.51-3.02)	<0.001
FBXW9	1.43 (0.95-2.14)	0.084	CDC25C	1.92 (1.36-2.71)	<0.001
CBLB	1.2 (0.85-1.69)	0.3	ASF1B	1.71 (1.21-2.42)	0.002
FBXL16	0.77 (0.53-1.12)	0.17	UBE3A	0.54 (0.38-0.78)	<0.001
KLHL25	1.29 (0.89-1.88)	0.17	FBXL14	0.59 (0.41-0.84)	0.0033
ESPL1	1.92 (1.36-2.72)	<0.001	ASB8	0.75 (0.53-1.06)	0.099
KLHL13	1.18 (0.83-1.69)	0.36	DTX3L	0.62 (0.41-0.93)	0.021
CDCA5	2.32 (1.62-3.32)	<0.001	FZR1	0.72 (0.48-1.07)	0.1
SIAH2	0.54 (0.38-0.78)	<0.001	MGRN1	0.54 (0.35-0.82)	0.0035
FBXL15	0.61 (0.42-0.89)	0.0091	TRAIP	1.98 (1.38-2.85)	<0.001
KIFC1	2.08 (1.47-2.93)	<0.001	TROAP	1.84 (1.27-2.66)	0.001

**Supplementary Table 11. The correlations between the expression of hub genes and METTL14 expression in HCC.**

Gene	R	P value	Gene	R	P value
HNRNPA2B1	0.52	<0.001	RBM17	0.23	<0.001
HSPA8	0.38	<0.001	PPIH	0.11	0.036
MPHOSPH10	0.42	<0.001	BUB1	0.35	<0.001
DDX55	0.43	<0.001	GPATCH4	0.3	<0.001
SRRM1	0.7	<0.001	NOP56	-0.077	0.14
SF1	0.73	<0.001	SNRNP27	0.58	<0.001
UTP14A	0.35	<0.001	BCCIP	0.16	0.017
HNRNPR	0.52	<0.001	WDR75	0.35	<0.001
EXOSC5	-0.11	0.027	NCL	0.46	<0.001
SF3A2	0.11	0.036	DHX40	0.54	<0.001
DDX31	0.41	<0.001	WDR43	0.51	<0.001
WDR74	-0.094	0.07	TRUB1	0.62	<0.001
DDX47	0.45	<0.001	SSB	0.25	<0.001
CEBPZ	0.17	<0.001	SDAD1	0.75	<0.001
UTP3	0.56	<0.001	PWP2	0.17	0.0014

**Supplementary Table 12. The associations between the expression of hub genes and overall survival of HCC patients.**

Gene	HR (95%CI)	P value	Gene	HR (95%CI)	P value
HNRNPA2B1	1.38 (0.95-2.01)	0.094	RBM17	1.86 (1.32-2.63)	<0.001
HSPA8	1.81 (1.21-2.71)	0.0036	PPIH	1.76 (1.24-2.49)	0.0012
MPHOSPH10	0.78 (0.53-1.13)	0.19	BUB1	2.1 (1.45-3.04)	<0.001
DDX55	1.8 (1.26-2.56)	0.001	GPATCH4	1.55 (1.09-2.18)	0.013
SRRM1	1.27 (0.9-1.79)	0.18	NOP56	2.33 (1.65-3.3)	<0.001
SF1	0.82 (0.58-1.16)	0.26	SNRNP27	1.28 (0.9-1.83)	0.17
UTP14A	1.46 (1.03-2.06)	0.03	BCCIP	1.55 (1.1-2.19)	0.012
HNRNPR	1.81 (1.27-2.6)	<0.001	WDR75	2.09 (1.45-3.02)	<0.001
EXOSC5	1.33 (0.91-1.95)	0.14	NCL	1.7 (1.19-2.44)	0.0031
SF3A2	1.43 (1-2.05)	0.048	DHX40	0.68 (0.47-0.98)	0.036
DDX31	1.76 (1.21-2.54)	0.0024	WDR43	1.64 (1.15-2.33)	0.0055
WDR74	0.81 (0.57-1.16)	0.26	TRUB1	0.76 (0.54-1.08)	0.13
DDX47	1.27 (0.9-1.8)	0.18	SSB	1.95 (1.35-2.83)	<0.001
CEBPZ	1.51 (1.06-2.15)	0.022	SDAD1	1.39 (0.97-2.01)	0.072
UTP3	0.8 (0.57-1.14)	0.22	PWP2	1.34 (0.95-1.89)	0.094