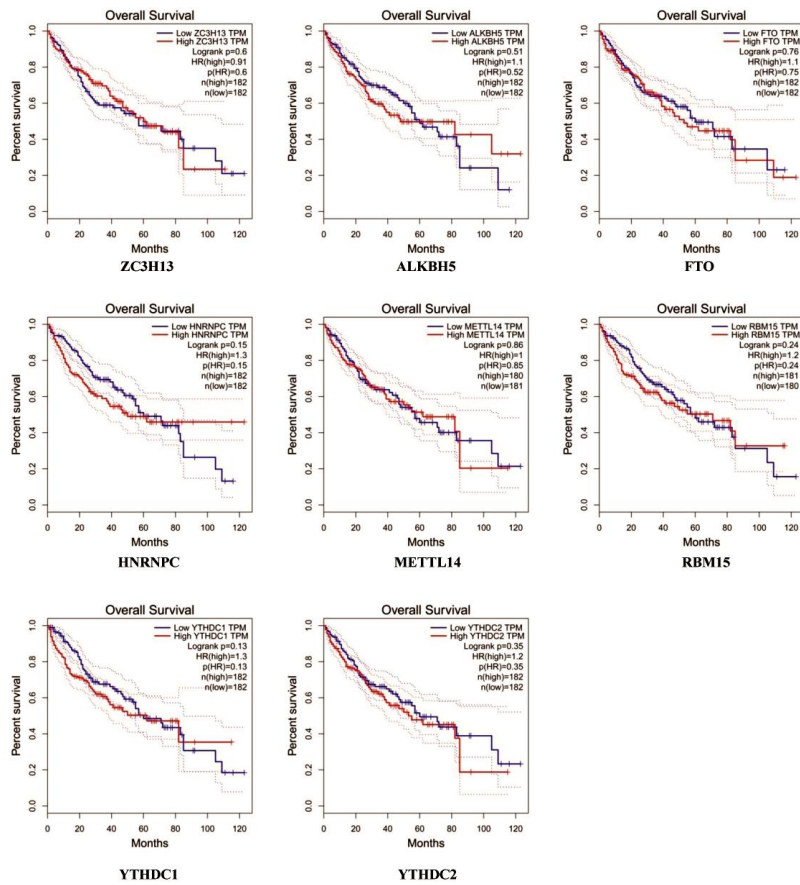


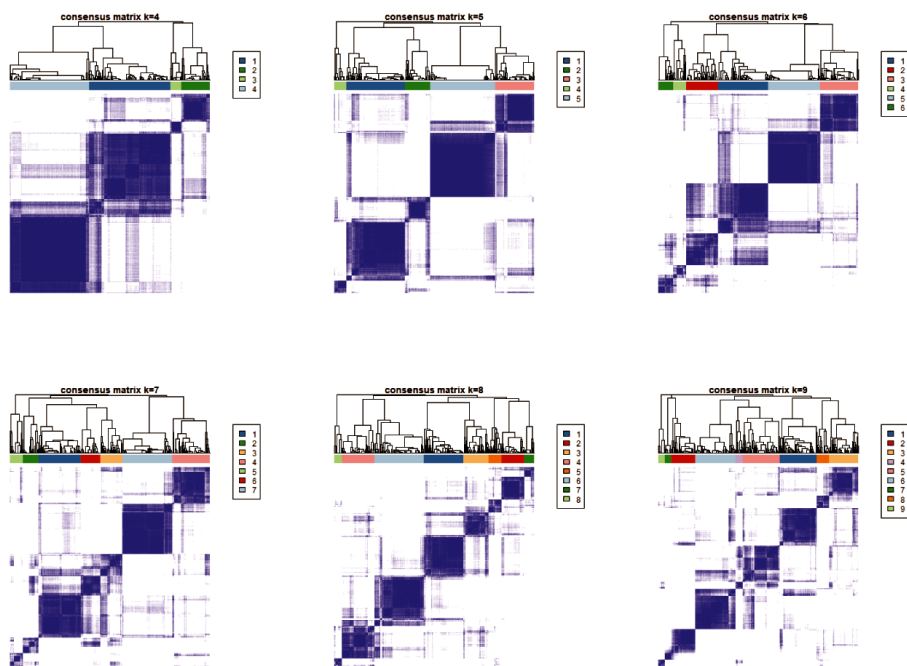
Supplementary figure 1

Expression levels of m6A RNA methylation regulators in HCC at different tumor stages.



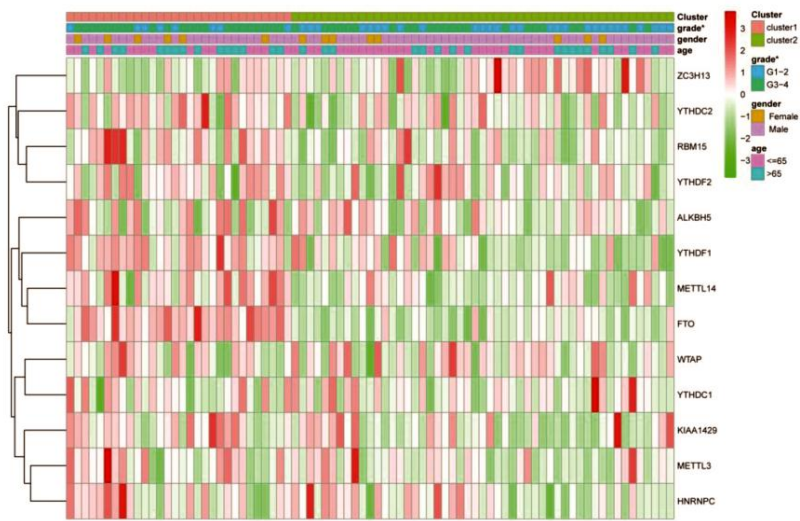
Supplementary figure 2

Kaplan–Meier overall survival curve for patients with HCC with high or low expression levels of m6A RNA methylation regulators.



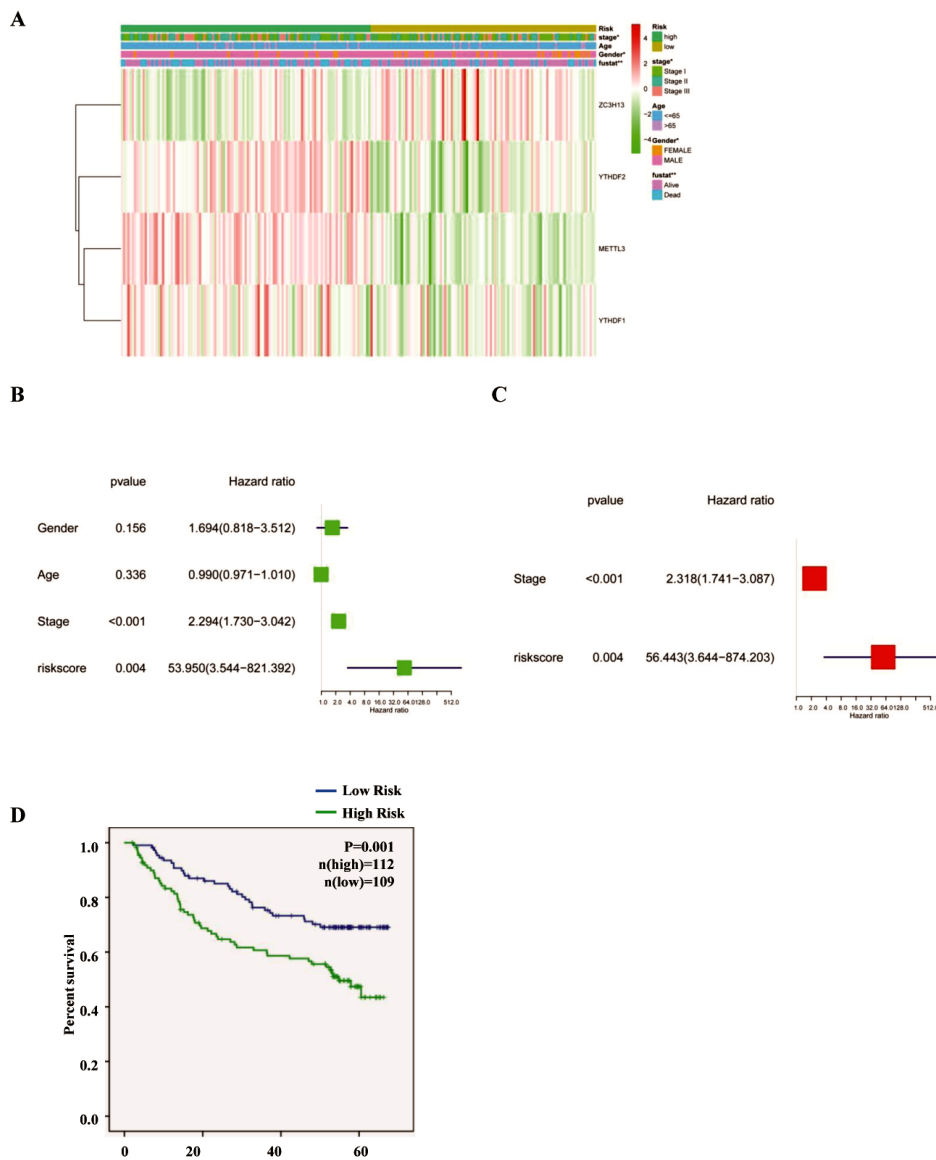
Supplementary figure 3

Consensus clustering matrix for $k = 4-9$.



Supplementary figure 4

Heatmap and clinicopathological features of the two clusters defined by the consensus expression of m6A RNA methylation regulators in GSE62232.

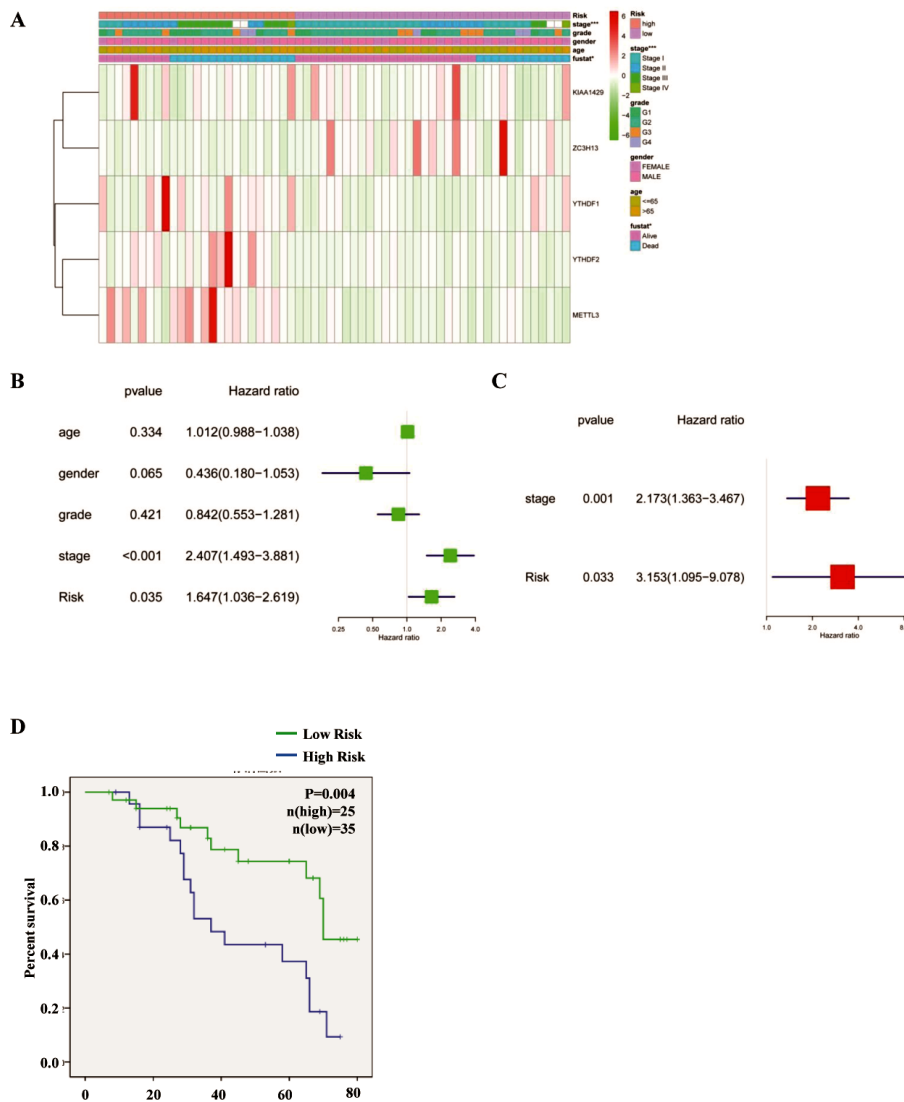


Supplementary figure 5

Prognostic value of m6A RNA methylation regulators in HCC from GSE14520

The heatmap shows the expression of the four RNA methylation regulators in low- and high-risk groups. The distribution of clinicopathological features was compared between these two groups. (B-C) Univariate and multivariate Cox regression analyses of the association between clinicopathological factors (including the risk score) and OS of patients with HCC. (D) OS curves for patients in the GSE14520 dataset assigned to high- and low-risk groups based on the risk score.

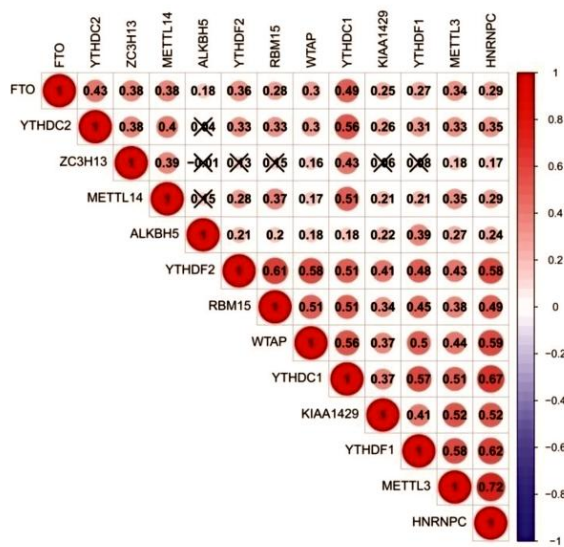
Note: * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$



Supplementary figure 6

Prognostic value of m6A RNA methylation regulators in HCC from clinical samples collected in Xinqiao Hospital. The heatmap shows the expression of the five RNA methylation regulators in low- and high-risk groups. The distribution of clinicopathological features was compared between these two groups. (B-C) Univariate and multivariate Cox regression analyses of the association between clinicopathological factors (including the risk score) and OS of patients with HCC. (D) OS curves for clinical samples we collected assigned to high- and low-risk groups based on the risk score.

Note: * P < 0.05, ** P < 0.01, *** P < 0.001



Supplementary figure 7
The correlation of 13 m6A RNA methylation regulators.

Supplementary Table 1. Primers used in qRT-PCR

Gene name	Forward Primer	Reverse Primer
FTO	ACTTGGCTCCCTTATCTGACC	TGTGCAGTGTGAGAAAGGCTT
WTAP	TTGTAATGCGACTAGCAACCAA	GCTGGGTCTACCATTGTTGATCT
ALKBH5	CGGCGAAGGCTACACTTACG	CCACCAGCTTTTGGATCACCA
ZC3H13	TGACCGGCGTCACGAAAGGA	AAACTCCTTTCGTGACGCCGGT
YTHDF2	CCTTAGGTGGAGCCATGATTG	TCTGTGCTACCCAACCTCAGT
METTL14	GAACACAGAGCTTAAATCCCCA	TGTCAGCTAAACCTACATCCCTG
METTL3	CATTGCCCACTGATGCTGTG	AGGCTTTCTACCCCATCTTGA
KIAA1429	CGATAACTTGATGACCCAGAA	ATAACGGCAAGATTCCATTTC
YTHDC1	AACTGGTTTCTAAGCCACTGAGC	GGAGGCACTACTTGATAGACGA
HNRNPC	GCCAGCAACGTTACCAACAA	TGAACAGAGCAGCCCACAAT
YTHDF1	ACCTGTCCAGCTATTACCCG	TGGTGAGGTATGGAATCGGAG
YTHDC2	CAAAACATGCTGTTAGGAGCCT	CCACTTGTCTTGCTCATTTC
RBM15	CACCGATTGACCAATGAGGTCTG	AAACCGCAGACCTCATTGGTCA
GAPDH	CGCTGAGTACGTCGTGGAGTC	GCTGATGATCTTGAGGCTGTTGTC

Supplementary Table 2. Univariate analysis for survival analysis in GSE14520

Variables	Univariate analysis			
	HR	HR95%L	HR95%H	P value
Age	0.990449	0.97126306	1.010013766	0.336252123
Gender	1.694362	0.817532942	3.51161524	0.156148784
Stage	2.293942	1.729966003	3.041777358	8.06E-09
Risk score	53.9503	3.543541277	821.3916138	0.004096944

Abbreviations: HR, Hazard ratio; CI, confidence interval

Supplementary Table 3. Multivariate analysis for survival analysis in GSE14520

Variables	Multivariate analysis			
	HR	HR95%L	HR95%H	P value
Stage	2.318134	1.740963	3.086651	8.65E-09
Risk score	56.44311	3.644262	874.203	0.003915

Abbreviations: HR, Hazard ratio; CI, confidence interval

Supplementary Table 4. Univariate analysis for survival analysis in 60 clinical samples

Variables	Univariate analysis			
	HR	HR95%L	HR95%H	P value
	1.012225	0.987563	1.037503	0.334281
Gender	0.435958	0.180495	1.052989	0.065008
Grade	0.84171	0.553252	1.280566	0.420895
Stage	2.406997	1.492711	3.881284	0.000314
Risk score	1.646967	1.035524	2.619446	0.035082

Abbreviations: HR, Hazard ratio; CI, confidence interval

Supplementary Table 5. Multivariate analysis for survival analysis in 60 clinical samples

Variables	Multivariate analysis			
	HR	HR95%L	HR95%H	P value
Stage	2.173333045	1.362560531	3.466544	0.001119
Risk score	3.152811369	1.09492328	9.078462	0.033335

Abbreviations: HR, Hazard ratio; CI, confidence interval