

Supplementary Tables

Table S1. List of the primers of the genes

Gene	Forward	Reverse
CEMIP	5'-GTCTTTCCCACCAAACATC-3'	5'-CTCTCCATCACC ACTAATCTC-3'
GAPDH	5-ATCCCATCACCATCTTC-3'	5-AGGCTGTTGTCATACTTC-3'.
miR-140-3p	5'-ACACTCCAGCTGGGAGGCGGGGCG CCGCGGGA-3'	5'- CTCAACTGGTGTCGTGGA-3'
U6	5'-GCTTCGGCAGCACATATACTAAAAT-3'	5'-CGCTTCACGAATTTGCGTGTCAT-3'

Table S2. The association of CEMIP expression with clinicopathologic characteristics in CRC patients

Variables	Cases (n)	CEMIP		<i>P</i> value
		High	Low	
Total	42	12	30	
<i>Age (years)</i>				
≥ 60	24	8	16	0.436
< 60	18	4	14	
<i>Gender</i>				
Male	23	7	16	0.771
Female	19	5	14	
<i>Pathological stage</i>				
I / II	37	10	27	0.552
III/IV	5	2	3	
<i>T stage</i>				
T1/T2	5	1	4	0.655
T3/T4	37	11	26	
<i>N stage</i>				
Negative	27	4	23	0.009
Positive	15	8	7	
<i>M stage</i>				
Negative	39	11	28	0.852
Positive	3	1	2	

Table S3. TCGA analysis of the association of CEMIP expression with clinicopathologic characteristics in CRC patients

Variables	Cases (n)	CEMIP		<i>P</i> value
		High	Low	
Total	348	69	279	
<i>Age (years)</i>				
≥60	248	49	199	
<60	100	20	80	1.000
<i>Gender</i>				
Male	188	42	146	
Female	160	27	133	0.226
<i>Pathological stage</i>				
I / II	196	38	158	
III/IV	152	31	121	0.892
<i>T stage</i>				
T1/T2	68	10	58	
T3/T4	280	59	221	0.309
<i>N stage</i>				
Negative	200	39	161	
Positive	148	30	118	0.892
<i>M stage</i>				
Negative	265	51	214	
Positive	83	18	65	0.638

Table S4. Cox regression analysis of CEMIP expression as a recurrence predictor in

TCGA cohort

Variables	Univariate Cox regression analysis		Multivariate Cox regression analysis	
	RR (95% CI)	P value	RR (95% CI)	P value
<i>Age (years)</i>				
<60 vs. ≥60	0.596 (0.370 to 0.961)	0.034	0.745 (0.456 to 1.217)	0.240
<i>Gender</i>				
Male vs. Female	1.542 (0.962 to 2.472)	0.072	NA	NA
<i>Pathological stage</i>				
III/IV vs. I / II	2.259 (1.417 to 3.600)	0.001	1.828 (0.231 to 14.445)	0.567
<i>T stage</i>				
T3+T4 vs. T1+T2	1.551 (0.771 to 3.120)	0.219	NA	NA
<i>N staging</i>				
Positive vs. Negative	2.196 (1.381 to 3.492)	0.001	0.979 (0.130 to 7.399)	0.983
<i>M stage</i>				
Positive vs. Negative	2.474 (1.526 to 4.011)	<0.0001	1.789 (1.059 to 3.023)	0.030
<i>CEMIP expression</i>				
High VS. Low	2.211 (1.328 to 3.683)	0.002	1.971 (1.173 to 3.309)	0.010

NA: not analyzed

Table S5. Cox regression analysis of CEMIP expression as a survival predictor in

CRC patients

Variables	Univariate Cox regression analysis		Multivariate Cox regression analysis	
	RR (95% CI)	P value	RR (95% CI)	P value
<i>Age (years)</i>				
≥ 60 vs. <60	0.926 (0.373 to 2.297)	0.868	NA	NA
<i>Gender</i>				
Male vs. Female	0.914 (0.369 to 2.264)	0.846	NA	NA
<i>Pathological stage</i>				
III/IV vs. I / II	3.435 (0.940 to 12.559)	0.062	1.887 (0.469 to 7.598)	0.371
<i>T stage</i>				
T3+T4 vs. T1+T2	5.496 (0.707 to 42.718)	0.103	NA	NA
<i>N staging</i>				
Positive vs. Negative	7.010 (2.260 to 21.744)	0.001	6.072 (1.853 to 19.900)	0.003
<i>M stage</i>				
Positive vs. Negative	1.000 (0.006 to 180.422)	1.000	NA	NA
<i>CEMIP expression</i>				
High VS. Low	2.457 (0.944 to 6.392)	0.065	1.827 (0.649 to 5.148)	0.254

NA: not analyzed

Table S6. Cox regression analysis of CEMIP expression as a survival predictor in

TCGA cohort

Variables	Univariate Cox regression analysis		Multivariate Cox regression analysis	
	RR (95% CI)	<i>P</i> value	RR (95% CI)	<i>P</i> value
<i>Age (years)</i>				
<60 vs. ≥60	1.330 (0.760 to 2.329)	0.317	NA	NA
<i>Gender</i>				
Male vs. Female	1.343 (0.831 to 2.170)	0.229	NA	NA
<i>Pathological stage</i>				
III/IV vs. I / II	2.921 (1.778 to 4.801)	<0.0001	2.296 (0.293 to 17.963)	0.428
<i>T stage</i>				
T3+T4 vs. T1+T2	2.007 (0.866 to 4.654)	0.104	NA	NA
<i>N staging</i>				
Positive vs. Negative	2.810 (1.718 to 4.595)	<0.0001	0.974 (0.130 to 7.285)	0.980
<i>M stage</i>				
Positive vs. Negative	3.317 (2.057 to 5.351)	<0.0001	2.390 (1.426 to 4.003)	0.001
<i>CEMIP expression</i>				
High VS. Low	1.961 (1.150 to 3.344)	0.013	1.626 (0.944 to 2.801)	0.079

NA: not analyzed

Table S7. The correlation of miR-140-3p expression with clinicopathologic characteristics in CRC patients

Variables	Cases (n)	miR-140-3p		<i>P</i> value
		High	Low	
Total	200	167	33	
<i>Age (years)</i>				
≥60	136	111	25	0.414
<60	64	56	8	
<i>Gender</i>				
Male	108	84	24	0.022
Female	92	83	9	
<i>Pathological stage</i>				
I / II	111	97	14	0.125
III/IV	89	70	19	
<i>T stage</i>				
T1/T2	36	34	2	0.051
T3/T4	164	133	31	
<i>N stage</i>				
Negative	115	101	14	0.082
Positive	85	66	19	
<i>M stage</i>				
Negative	138	116	22	0.837
Positive	62	51	11	

Table S8. Cox regression analysis of miR-140-3p expression as a recurrence predictor in CRC patents

Variables	Univariate Cox regression analysis		Multivariate Cox regression analysis	
	RR (95% CI)	P value	RR (95% CI)	P value
<i>Age (years)</i>				
<60 vs. ≥60	0.572 (0.312 to 1.052)	0.072	NA	NA
<i>Gender</i>				
Male vs. Female	2.153 (1.129 to 4.104)	0.020	1.865 (0.966 to 3.602)	0.063
<i>Pathological stage</i>				
III/IV vs. I / II	1.941 (1.051 to 3.585)	0.034	1.726 (0.220 to 13.558)	0.604
<i>T stage</i>				
T3+T4 vs. T1+T2	4.454 (1.076 to 18.438)	0.039	3.221 (0.755 to 13.735)	0.114
<i>N staging</i>				
Positive vs. Negative	1.866 (1.015 to 3.432)	0.045	0.911 (0.119 to 6.980)	0.929
<i>M stage</i>				
Positive vs. Negative	1.518 (0.804 to 2.867)	0.198	NA	NA
<i>miR-140-3p expression</i>				
High VS. Low	0.387 (0.201 to 0.478)	0.005	0.463 (0.237 to 0.907)	0.025

NA: not analyzed

Table S9. Cox regression analysis of miR-140-3p expression as a survival predictor in CRC patients

Variables	Univariate Cox regression analysis		Multivariate Cox regression analysis	
	RR (95% CI)	P value	RR (95% CI)	P value
<i>Age (years)</i>				
<60 vs. ≥60	1.583 (0.807 to 3.107)	0.182	NA	NA
<i>Gender</i>				
Male vs. Female	1.875 (1.036 to 3.393)	0.038	1.843 (0.999 to 3.399)	0.050
<i>Pathological stage</i>				
III/IV vs. I / II	2.421 (1.347 to 4.351)	0.003	1.441 (0.17 to 11.696)	0.733
<i>T stage</i>				
T3+T4 vs. T1+T2	2.671 (0.828 to 8.620)	0.100	NA	NA
<i>N staging</i>				
Positive vs. Negative	2.320 (1.299 to 4.143)	0.004	1.333 (0.172 to 10.327)	0.783
<i>M stage</i>				
Positive vs. Negative	2.213 (1.242 to 3.943)	0.007	2.127 (1.145 to 3.953)	0.017
<i>miR-140-3p expression</i>				
High VS. Low	0.491 (0.261 to 0.921)	0.027	0.563 (0.294 to 1.075)	0.082

NA: not analyzed