

Figure S1. Transfection efficiency of anti-miR-411-5p was verified using reverse transcription-quantitative PCR. (A) HSC-3 and (B) SCC15 cells were infected with lentiviral vectors to establish stable cell lines that expressed short hairpin RNA against miR-411-5p (anti-miR-411-5p). Compared with the empty vector (anti-ctrl), the miR-411-5p expression was downregulated in the anti-miR-411-5p group. *P<0.05. miR, microRNA; ctrl, control.

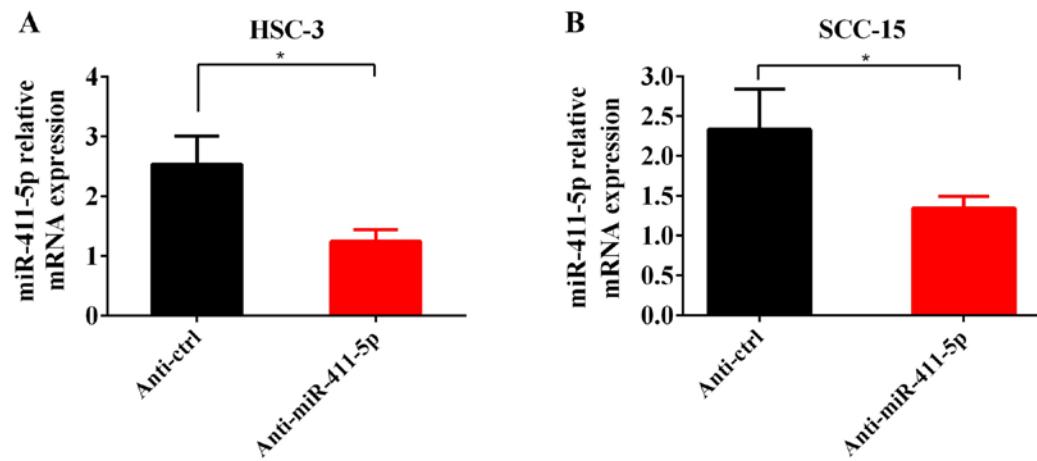


Figure S2. miR-411-5p has minimal effects on head and neck squamous cell carcinoma cell proliferation *in vitro*. (A) Cell Counting Kit-8 and (B) colony formation assays were used to analyze the proliferation of HSC-3 and SCC-15 cells transfected with miR-411-5p mimics, miR-411-5p inhibitor or the respective NCs. miR, microRNA; NC, negative control; ns, not significant.

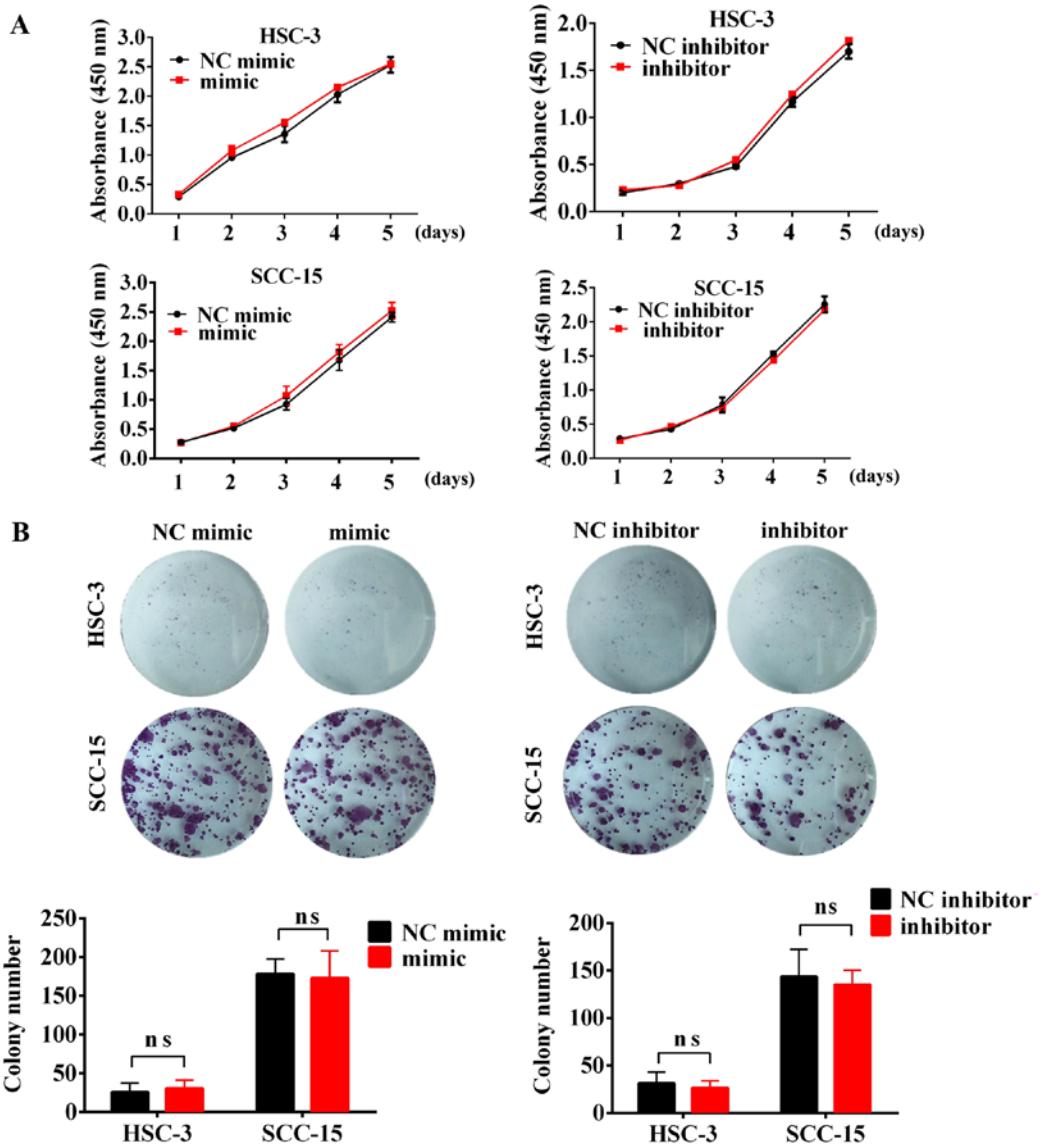


Table SI. Association between the expression of miR-411-5p and clinicopathological characteristics in patients with HNSCC in TCGA databases.

Clinicopathological characteristics	Number of cases, n	miR-411-5p expression, n		P-value
		High	Low	
Age, years				
≥55	274	138	136	>0.999
<55	104	52	52	
Sex				
Male	277	138	139	0.817
Female	101	52	49	
Differentiation				
Well	43	20	23	0.630
Moderate + poor	335	170	165	
T stage				
T1 + TII	119	60	59	>0.999
TIII + TIV	259	130	129	
Clinical stage				
I-II	80	42	38	0.706
III-IV	298	148	150	
LNM				
LNM(-)	160	69	91	0.022 ^a
LNM(+)	218	121	97	

^aP<0.05. miR, microRNA; HNSCC, head and neck squamous cell carcinoma; LNM, lymph node metastasis; T, tumor; TCGA, The Cancer Genome Atlas.

Table SII. Multivariate Cox regression analysis of different clinicopathological characteristics in TCGA databases.

Clinicopathological characteristics	Univariate analysis		Multivariate analysis	
	P-value	P-value	HR	95% CI
Sex (female vs. male)	0.191	0.252	0.817	0.579, 1.154
Age, years (≥ 55 vs. < 55)	0.157	0.071	1.417	0.971, 2.067
Pathological grade (well vs. moderate/poor)	0.162	0.176	1.436	0.851, 2.425
Tumor stage (T1 + II vs. TIII + IV)	0.056	0.188	1.495	0.822, 2.721
LNM (positive vs. negative)	<0.001 ^a	<0.001 ^a	1.911	1.335, 2.735
Clinical stage (CI-II vs. CIII-IV)	0.149	0.477	0.774	0.382, 1.568
miR-411-5p expression (high vs. low)	0.002 ^a	0.019 ^a	1.478	1.066, 2.048

^aP<0.05. miR, microRNA; LNM, lymph node metastasis; TCGA, The Cancer Genome Atlas; HR, hazard ratio.