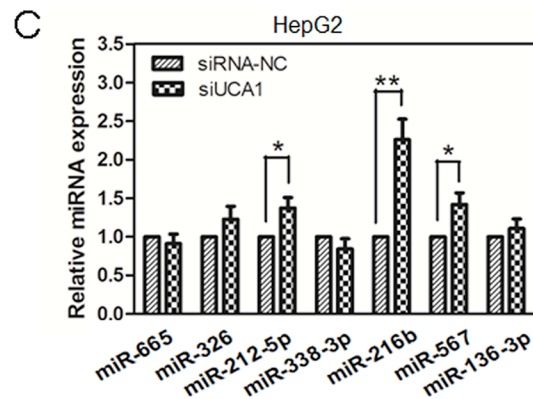
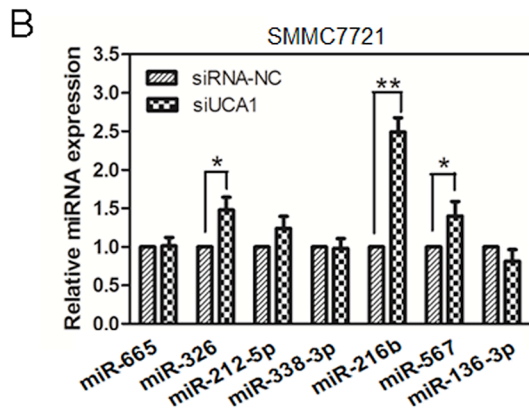
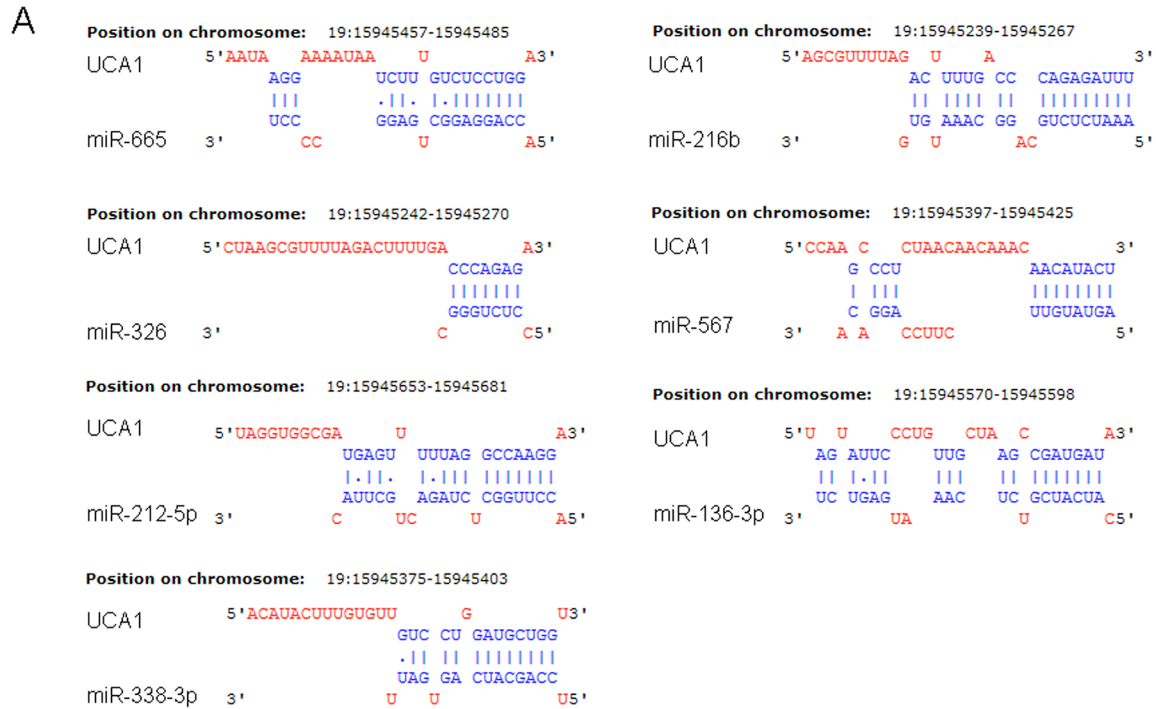
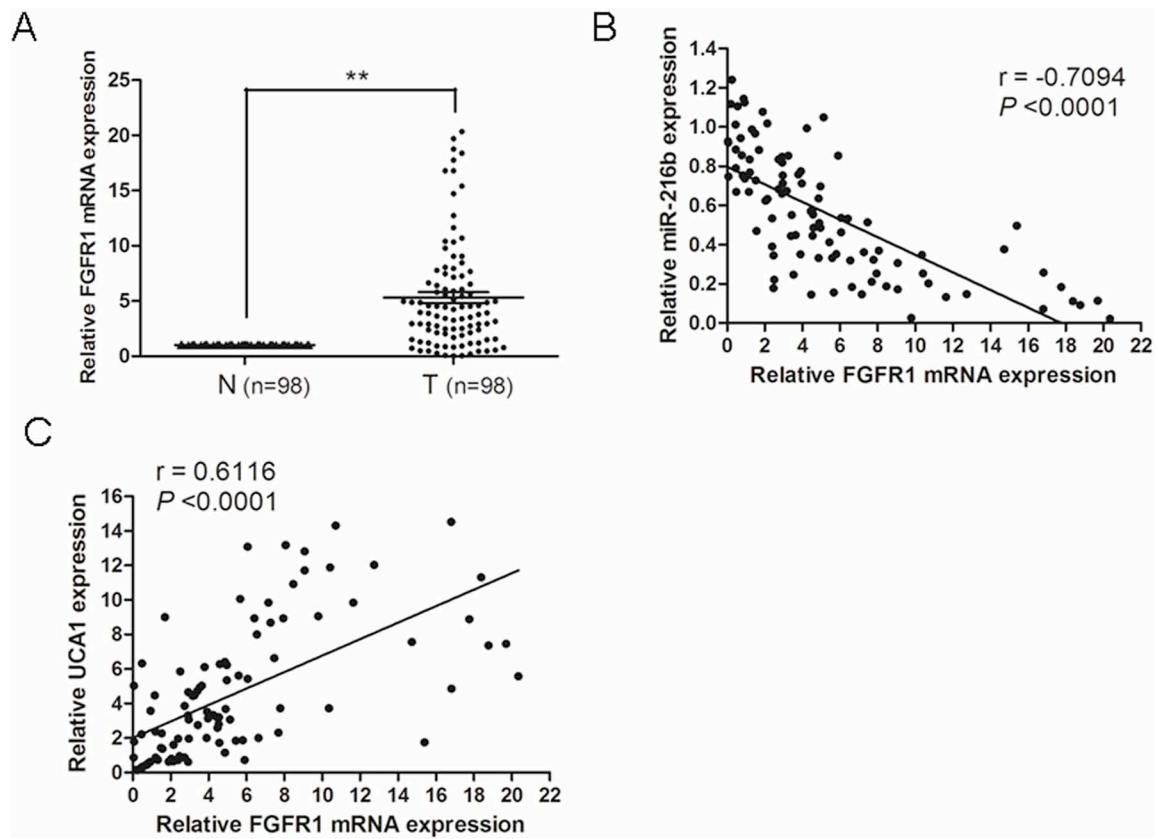


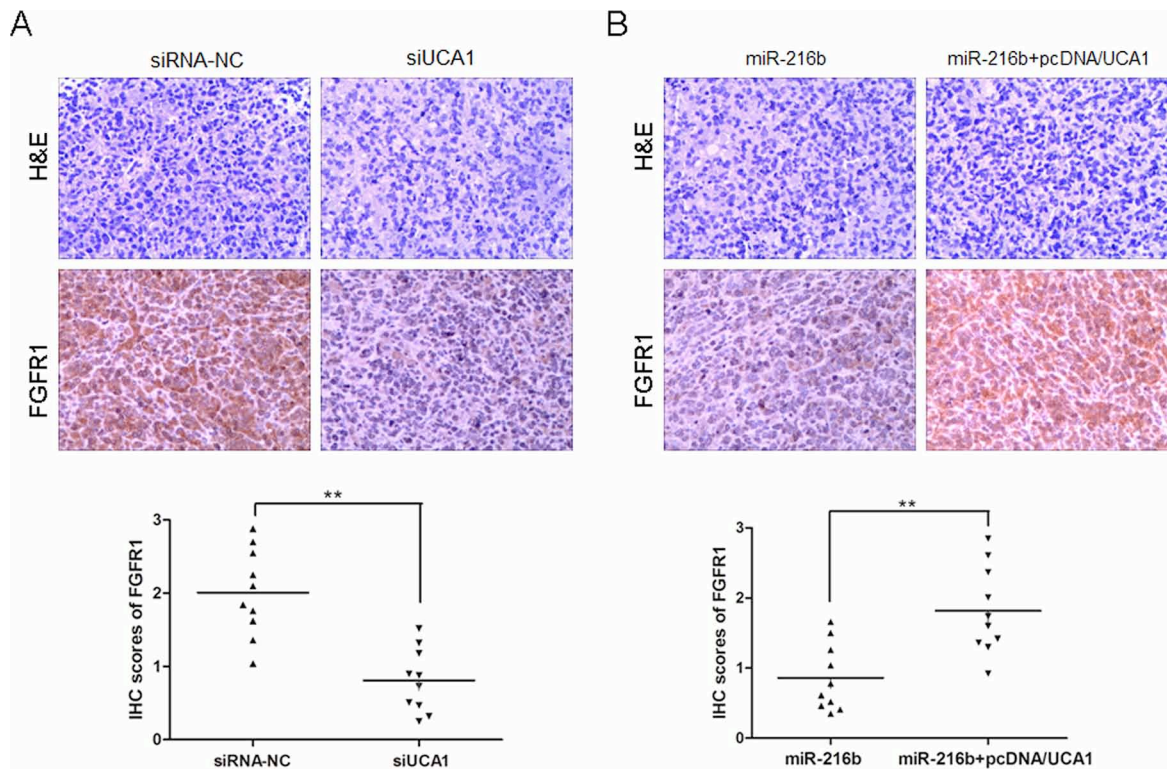
SUPPLEMENTARY FIGURES AND TABLE



Supplementary Figure S1: MiRNAs expression in siUCA1 transfected HCC cell lines. (A) Potential binding sites of seven randomly predicted targeting-miRNAs of UCA1, namely miR-665, miR-326, miR-212-5p, miR-338-3p, miR-216b, miR-567, miR-136-3p, respectively. The expression of miRNAs was detected in siUCA1 transfected SMMC7721 cells (B) and HepG2 cells (C) by qRT-PCR. All experiments were at least repeated in triplicate, mean±SD, * $P < 0.05$, ** $P < 0.01$, versus siRNA-NC.



Supplementary Figure S2: Relative FGFR1 mRNA expression in HCC tissues. (A) FGFR1 mRNA was examined by qRT-PCR and normalized to GAPDH expression in 98 pairs of HCC tissues (T) compared with corresponding nontumorous liver specimens (N), $**P < 0.001$. The correlation analyses were performed between the levels of FGFR1 mRNA expression and the levels of UCA1 expression (B) or miR-216b expression (C) in HCC tissues ($n = 98$).



Supplementary Figure S3: Immunohistochemical staining for FGFR1 in tumor tissues from nude mice models. (A) Representative tumor tissues developed from siRNA-NC or siUCA1 transfected SMMC7721 cells. (B) Representative tumor tissues developed from miR-216b or miR-216b + pcDNA/UCA1 transfected SMMC7721 cells. Upper: H&E staining; Lower: immunostaining ($\times 200$). Quantification assays were represented as immunohistochemistry (IHC) scores of FGFR1 from 10 arbitrarily selected fields, $**P < 0.01$.

Supplementary Table S1: Primers and siRNA sequences used in this study

Primers for qRT-PCR	
Primer name	5'-3'
miR-216b-F	CAGGCACACACTTACCCGTA
miR-216b-R	GCAGGGTCCGAGGTATTC
miR-665-F	ACGCCAACCAGGAGGCTGAG
miR-665-R	GCAGGGTCCGAGGTATTC
miR-326-F	ATTGAACCTCTGGGCCCTTC
miR-326-R	GCAGGGTCCGAGGTATTC
miR-212-5p-F	ATCGCCACCTTGGCTCTAGA
miR-212-5p-R	GCAGGGTCCGAGGTATTC
miR-338-3p-F	ATTGAAGGAGTCGCCTGAGT
miR-338-3p-R	GCAGGGTCCGAGGTATTC
miR-567-F	ACGCCAAGTATGTTCTTCCA
miR-567-R	GCAGGGTCCGAGGTATTC

(Continued)

Primers for qRT-PCR

Primer name	5'-3'
miR-136-3p-F	ATCGCCCATCATCGTCTCAA
miR-136-3p-R	GCAGGGTCCGAGGTATTC
U6-F	CTCGCTTCGGCAGCACA
U6-R	AACGCTTCACGAATTTGCGT
GAPDH-F	GGTGGTCTCCTCTGACTTCAA
GAPDH-R	GTTGCTGTAGCCAAATTCGTTGT
FGFR1-F	AACCTGACCACAGAATTGGAGGCT
FGFR1-R	ATGCTGCCGTACTCATTCTCCACA
UCA1-F	CTCTCCTATCTCCCTTCACTGA
UCA1-R	CTTTGGGTTGAGGTTCTCTGT
Primers for subcloning and plasmid construction	
Primer name	5'-3'
pCDNA/UCA1-F	GGATCCGATCTCTCCTCTTCCTCCTG
pCDNA/UCA1-R	CTCGAGAGGAAGATTTCTTTTCTGTC
pCDNA/pre-miR-216b-F	GGATCCTCCTTCATTCTCTATGGA
pCDNA/pre-miR-216b-R	CTCGAGGTTACAAACAACCTTCTT
pMIR-UCA1-F	ACGCGTGATCTCTCCTCTTCCTCCTG
pMIR-UCA1-R	AAGCTTAGGAAGATTTCTTTTCTGTC
pMIR-FGFR1/3'-UTR-F	CAGTCGACAATCACTCCTGGGAAGATCTCATTG
pMIR-FGFR1/3'-UTR-R	GGTGGATCCAGGGCCACAAGGTGGACAATCGG
siRNA Oligos	
name	5'-3'
siUCA1-sense	GATCCGGCTAATATGCCTGATTACTTTCAAGAG AAGTAATCAGGCATATTAGCTTTTTTGGAAA
siUCA1-antisense	AGCTTTTCCAAAAAAGCTAATATGCCTGATTAC TTCTCTTGAAAGTAATCAGGCATATTAGCCG
siRNA-NC-sense	GATCCGGCCTGTTTAGGTGGTCTTTTCAAGAGA AAGACCACCTAAACAGGCTTTTTTGGAAA
siRNA-NC-antisense	AGCTTTTCCAAAAAAGCCTGTTTAGGTGGTCTT TCTCTTGAAAAGACCACCTAAACAGGCCG