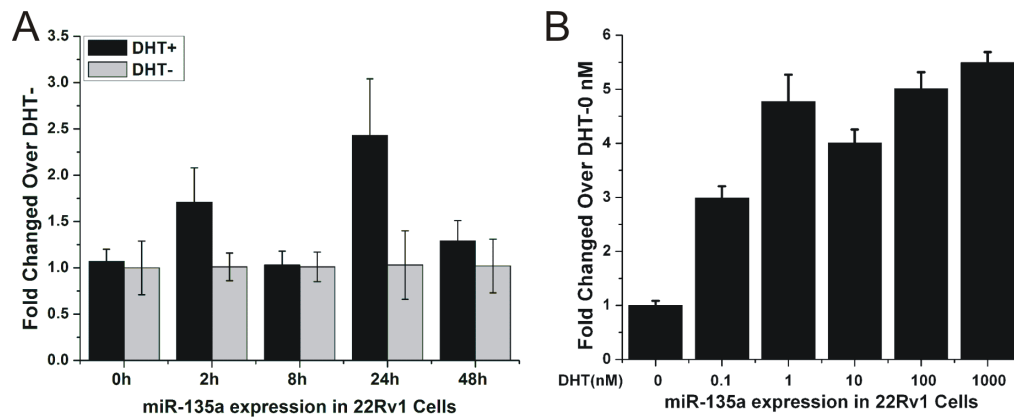
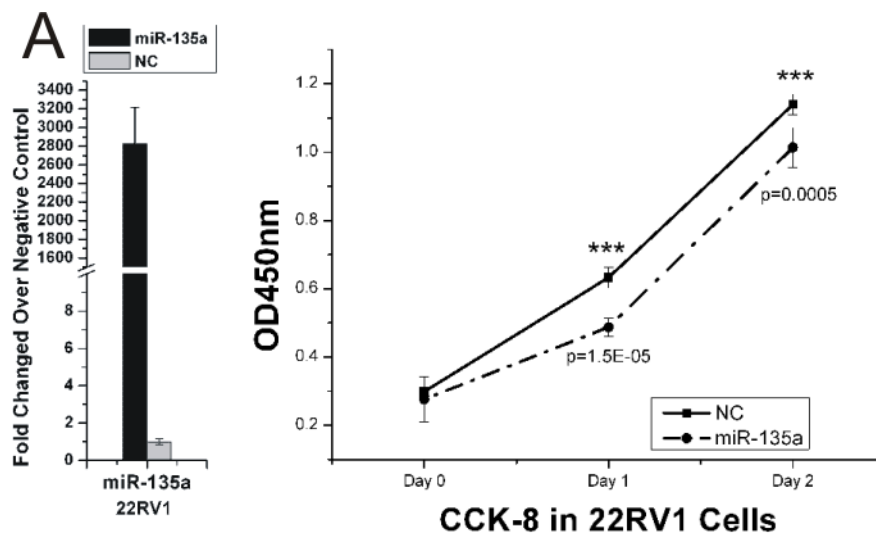


Androgen-induced miR-135a acts as a tumor suppressor through downregulating RBAK and MMP11, and mediates resistance to androgen deprivation therapy

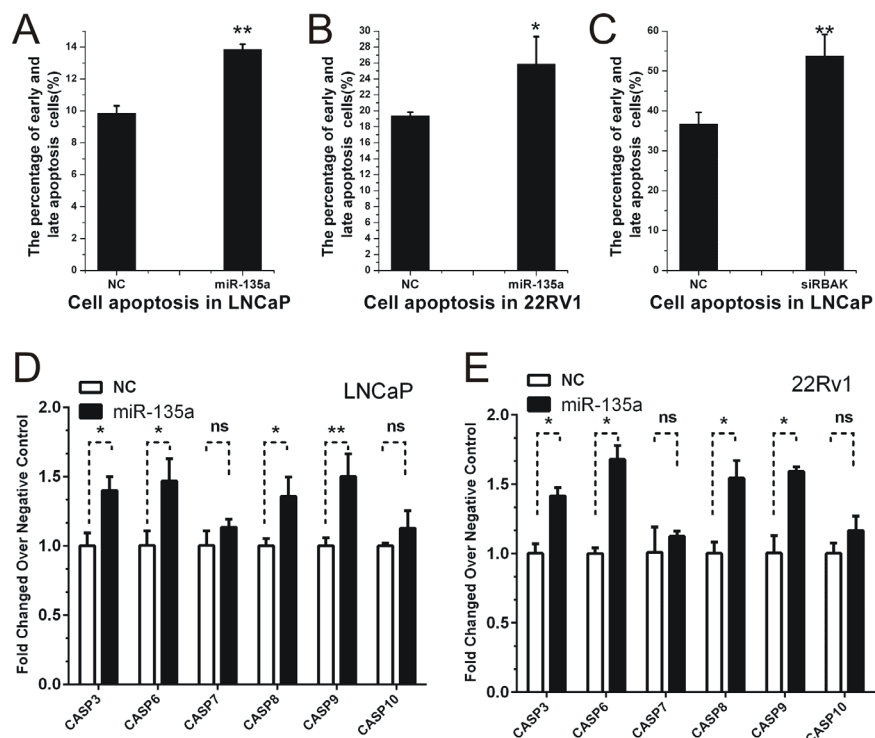
Supplementary Materials



Supplementary Figure S1: qRT-PCR analysis of miR-135a expression with androgen-starved for 72 h and treated with 10 nM DHT at different time points (A) and doses (B) in 22Rv1. Significance was defined as $p < 0.05$ ($*p < 0.05$; $**p < 0.01$; $***p < 0.001$).



Supplementary Figure S2: Cell proliferation analysis was performed with CCK-8 assay in 22Rv1. ($*p < 0.05$; $**p < 0.01$; $***p < 0.001$).



Supplementary Figure S3: RT-PCR was used to detect CASP3, CASP6, CASP7, CASP8, CASP9 and CASP10 in LNCaP and 22Rv1 cells. The cell apoptosis analysis results presented as mean \pm SD ($n = 3$). Significance was defined as $p < 0.05$ (* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$).

Supplementary Table S1: Primers used for ChIP-PCR, RT-PCR, clone, mutation and transfection

	Forward	Reverse
KIF3B	AGGCCAGCTGGAAAAAC	ACCTTCCCTCCGCTTCTCT
MTDH	AGTTGCTTGGTCCCAGTAGC	GCCCATGACAACCCAGATAG
RNF138	CATTTTCTTTCAGTTACATGGGTGT	AACTGGAAAACACTATGGTCAAAA
PTK2	TGAGGGAGAAGTATGAGCTTGC	TTGGCAAATAACGAATTCTCAA
VASH2	AACAGATGTTATTTTCAGTCTCAGTGC	TTCCTTCTATAAACACCTTCAGTC
FKBP1A	TCCCTCTGCTGATCTCAGTTT	AGGACAGCAAAGGGGTGAG
RBAK	CCACCAGTAAGAAAATGAACAGG	TTGTACATACATGAAGTCAAAA
RNF43	TGATTTTGGATTTTCTGTAAAGTGT	CAGAAATTTACTCCGGGATGA
RALBP1	CTGGGTCTGCTGTCTGAGC	AGGCCAGTGGACTTGTGTG
MMP11	TCCTGAGGTCAGGCTTGGT	CAGATTTCCAGGATTGTCAGC
siNC	UUCUCCGAACGUGUCACGUdTdT	ACGUGACACGUUCGGAGAAdTdT
siMMP11	CCUUUACUGAGGUGCACGAdTdT	UCGUGCACCUCAGUAAAGGdTdT
siRBAK	AUGUGUAAUCAGAGUAGACdTdT	CUGCUUGUAUCAAUAGCAAdTdT
U1	ACAGCATATGGCATTGCACAG	TGCAATTAAGGTCAAAGCTGACT
U2	GTGCTTAACGTTTTTGGTCAAAGTT	GCCATCTAACAACACCCAAGT
U3	CCTGTGGATGCCACCTCTTA	AGAGGAGGCACTAAACGTGTAATAA
U4	AGACTTCCCATTGCAAGCATA	AACTCTAAGCACACCCAGCA
U5	GGCCAGGTTGTAAAGCACT	CATCGGCCAGAACTCTTAGC
U6	GCTCTGTCACCAACACTCACT	GCTGCCTTTCTTGTGTGCTTT
D1	CGAGATTCCCTTGTCTCTCC	CCTCATATGTGGAATGGGGAT
D2	GTGACTCACGTCAGCACCTG	ACATCGAGAGATACTTGTGGAC
U6-pGL	ATGGGGCCTCATTGTGCC	GAAGATGAACTCTGCGTGGC

D1-pGL	CAGTGTTATGCTGTTTCGCACA	AGCCAGATTGTGCAAGAGTC
Mut-D1	GTTTTCCCCAAAGGTTTGTCTATTTAC TTTTTCAACTTTGATC	GAAACAAACCTTTGGGGAAAACACTCCCAGA GGGAACAAAAAAGG
Mut-D2	TTTTCCCCAAAGGTTTCCCGTTAAAA TTAAGGTCAAATGTCCAC	AACGGGAAACCTTTGGGGAAAAGTATTTAAGA GTTAGCATGGTGTAC
NC	ACCCTCGTTGCCAAGAATCTA	ACTACCAGCAATATAAGCAGCCA
3'UTR RBAK	TCAAAGATCCCTCAAGTGCCT	GATCTGCAATCCACCTCCA
3'UTR MMP11	GACTGAGCCCATGTCTCCTC	AGAAAACAACCTGTGTTTAATGACAA
3'UTR RBAK-mut	TGTTATGGTTACACAGAAATAATGAA GGTGTTAATTTGGC	ATTTCTGTGTAACCATAACAGGTCTTGATATT AGAAAT
3'UTR MMP11- mut	TCCTCCGGTTACTGTAAATGTGTGTAC AGTGTGTATAAACC	TTTACAGTGTAACCGGAGGATAGCAGTGCTGCGA AAAGGGCTT
hsa-mir-135a mimic	UAUGGCUUUUUAUCCUAUGUGA	ACAUAGGAAUAAAAAGCCAUAUU
hsa-mir-135a inhibitor	UCACAUAGGAAUAAAAAGCCAUA	