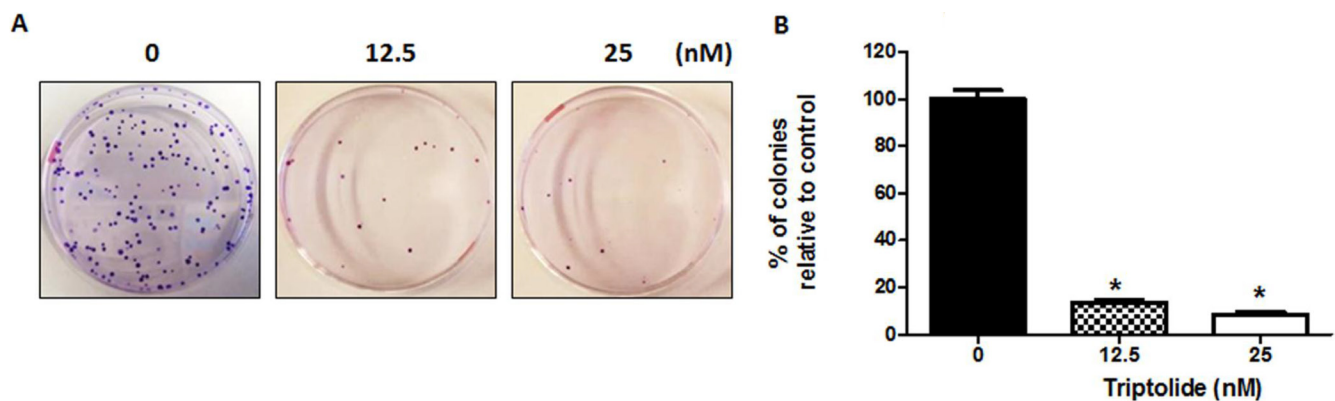
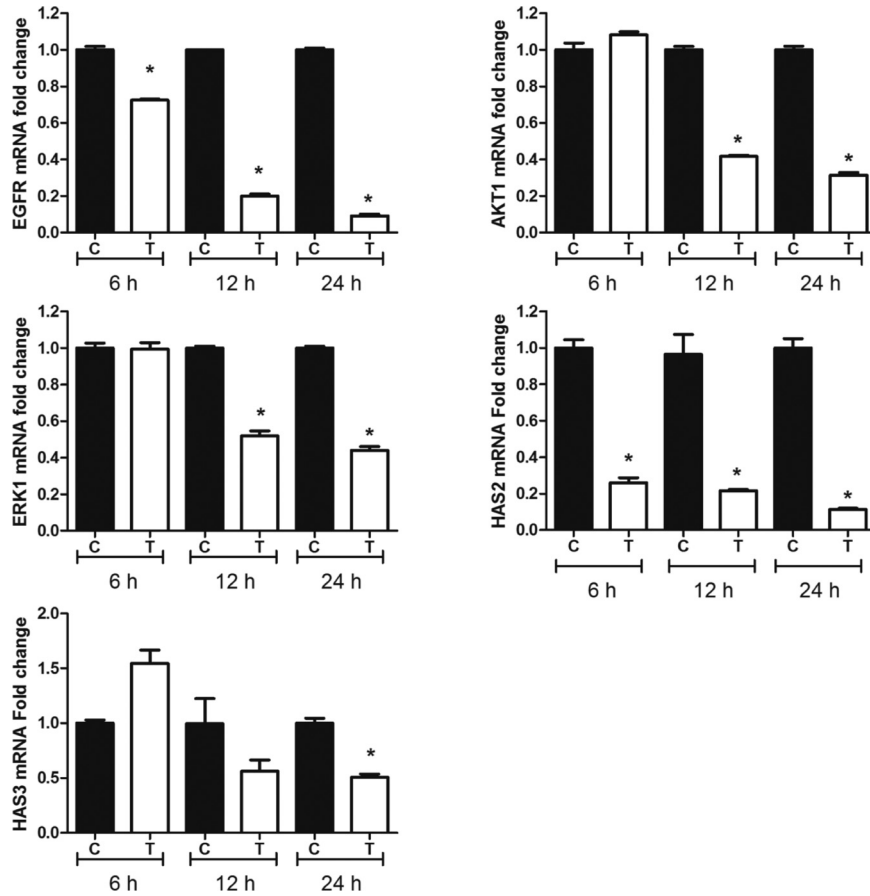


Triptolide suppresses the *in vitro* and *in vivo* growth of lung cancer cells by targeting hyaluronan-CD44/RHAMM signaling

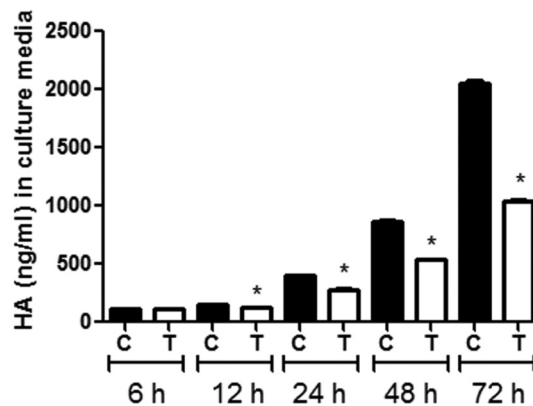
Supplementary Materials



Supplementary Figure 1: Triptolide suppresses the colony formation ability of A549 cells. (A) Representative figures showing the dose dependent effect of triptolide on the colony formation in A549 cells. (B) Bar graph showing the percent of colonies in untreated- and triptolide-treated A549 cells. Cells treated with DMSO or triptolide (12.5 and 25 nM) for 24 h were seeded in 60 mm culture plates and incubated for two weeks in RPMI 1640 medium supplemented with 10% FBS in the absence of triptolide. The colonies were stained for 10 min at room temperature with 0.5% crystal violet prepared in 30% ethanol. After washing out the dye with tap water, colonies were counted. * $P < 0.05$, compared with the untreated A549 cells. Assays were performed in three times on different days.



Supplementary Figure 2: Modulation of levels of HAS2, HAS3, EGFR, AKT1 and ERK in A549 cells treated with triptolide (25 nM) or DMSO for different time periods (6, 12 and 24 h). $*P < 0.05$, compared with the untreated A549 cells. C, Control (DMSO); T, triptolide



Supplementary Figure 3: HA levels in the culture media collected from A549 cells treated with triptolide (25 nM) or DMSO (control) for different time periods (6, 12, 24, 48 and 72 h). $*P < 0.05$, compared with the untreated A549 cells. C, Control; T, triptolide (25 nM).

Supplementary Table 1: Primer information used for qRT-PCR

Gene name	Forward primer (5'-3')	Reverse primer (5'-3')
CD44	ATCATCTTGGCATCCCTCTTG	TGAGTCCACTTGGCTTTCTG
RHAMM	AGCAACAGGAGGAAGACTTTAG	GAGGAGACGCCACTTGTTAAT
HAS1	TGTGACTCGGACACAAGGTTG	GCCTCAAGAAACTGCTGCAA
HAS2	GGGACGAAGTGTGGATTATGT	GAGATCCAGGAATCGTACTTGTT
HAS3	GCACCTTCTCGTGCATCAT	TCCAGGACTCGAAGCATCT
EGFR	GCTGGATGATAGACGCAGATAG	GAAGTTGGAGTCAGGACTTG
AKT1	CTTCTATGGCGCTGAGATTGT	GCCCGAAGTCTGTGATCTTAAT
ERK1	GGTACAGGGCTCCAGAAATTAT	TGGAAAGATGGGCCTGTTAG
β -actin	ACGGTCAGGTCATCACTATC	ACTGTGTTGGCATAGAGGTC