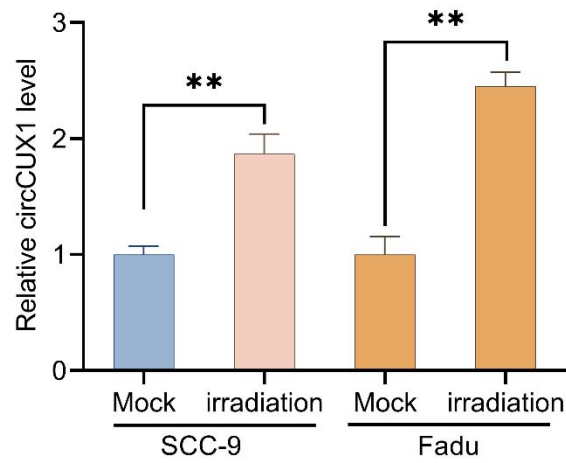
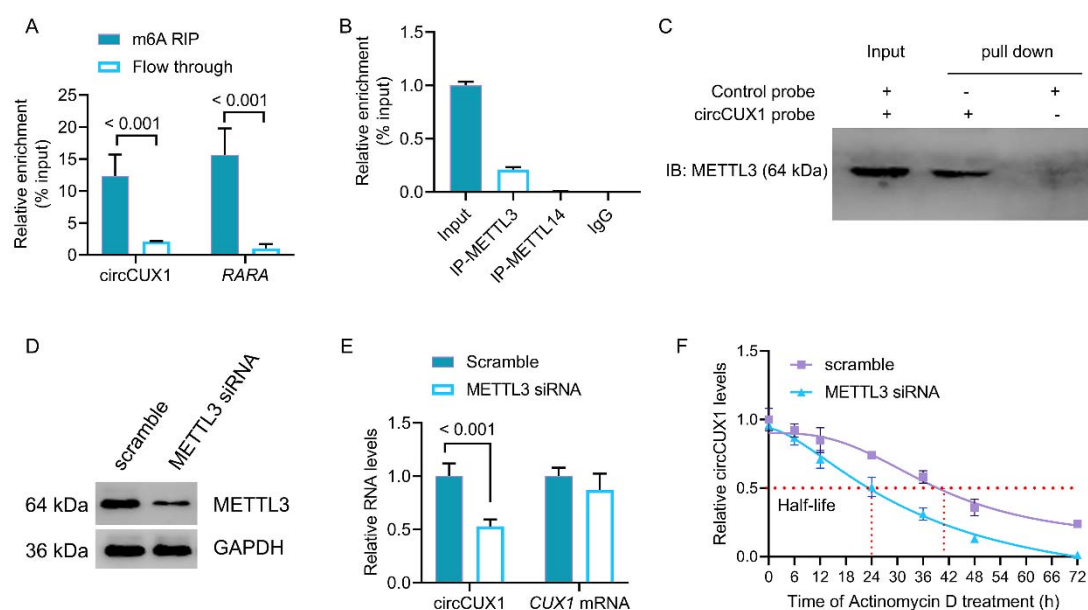


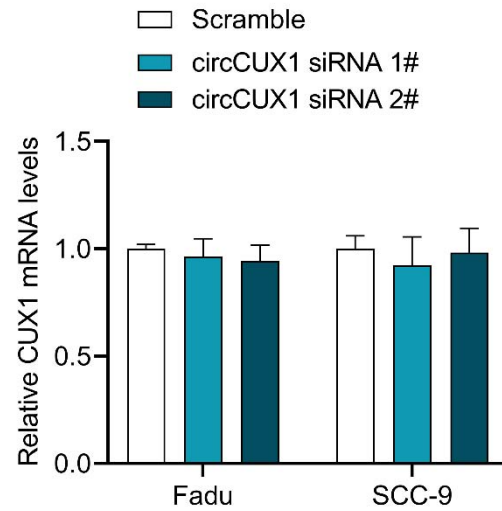
Supplementary Figures



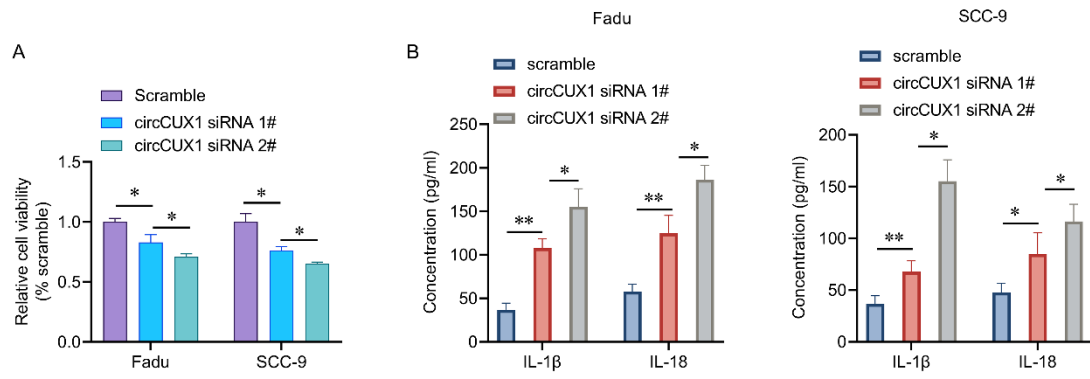
Supplementary Figure 1 circCUX1 was induced by irradiation. qRT-PCR analysis for the expression of circCUX1 in Fadu and SCC-9 cells after irradiation exposure.



Supplementary Figure 2 METTL3 promotes m6A-methylated circCUX1. (A) RIP assay showing that circCUX1 was highly recruited in m6A precipitated fraction. (B) RIP assays showing the association of METTL3 and METTL14 with circCUX1. Relative enrichment representing RNA levels associated with METTL3 and METTL14 relative to an input control. IgG antibody served as a control. (C) The circCUX1-protein complex pulled down by circCUX1 junction probe with protein extracts from SCC-9 cells. Immunoblot analysis of METTL3 after pulldown assay showing its specific association with circCUX1. (D) Western blot analysis for the expression of METTL3 after METTL3 siRNA transfection in SCC-9 cells. (E) qRT-PCR analysis for the expression of circCUX1 and CUX1 mRNA after METTL3 siRNA transfection in SCC-9 cells. (F) qRT-PCR analysis for the expression of circCUX1 after treatment with Actinomycin D at the indicated time points in SCC-9 cells.



Supplementary Figure 3 The effects of circCUX1 on cell viability and inflammatory factors release. (A) CCK8 assay was performed to measure the cell viability of Fadu and SCC-9 cell after siRNA transfection without irradiation. (B) The concentration of IL-1 β and IL-18 was determined by ELISA in Fadu and SCC-9 cells after siRNA transfection without irradiation.



Supplementary Figure 4 The effects of circCUX1 siRNA transfection on CUX1 mRNA expression. qRT-PCR analysis for the expression of CUX1 mRNA after circCUX1 siRNA transfection in Fadu and SCC-9 cells.

Supplementary Table1. primers

Primer name	qPCR primer sequence (5'→3')
circZNF644-Forward	GTGCAGGTGTCTTGGTCATG
circZNF644-Reverse	TCTTGCTTCCAGATCTTGACC
circCUX1 convergent-Forward	CTGTTGCTGGAGAAGAACCG
circCUX1 convergent-Reverse	GCGGCCAACTCAACTTCTAG
circCUX1 divergent-Forward	AAAACCTCAAAGGCCAGGCTG
circCUX1 divergent-Reverse	CCGATGAGAGCTGTTCCCTT
circABCC1-Forward	TGCTCACTTTCTGGCTGGTA
circABCC1-Reverse	AAGTCGGGGTTGCTGGTATT
circPAK1-Forward	TGTCAGCTATCTTCCGGGAC
circPAK1-Reverse	CTGCTTAATGGCCACCTCCT
circLRP5L-Forward	CCTTCACCCTGACACTCTCC
circLRP5L-Reverse	ATCTTCTGGGTGCTGTCGTC
circSIPA1L2-Forward	CGGGAAAGTCAATCAGCTGG
circSIPA1L2-Reverse	TGCCCCGTGGAATCAGTCTTA
circPGAP1-Forward	GTTGCTCCTGTGATGCCATT
circPGAP1-Reverse	TCTAAGTGCAATGGAGCCAA
circZFC3H1-Forward	GGACCAAACCTAGCACTGATAATG
circZFC3H1-Reverse	GGACATCAAAACAAGCATCCTT
circPALLD-Forward	CACAGCCTCCACCCTAGATG
circPALLD-Reverse	GTATGTTAACCTCGGCTGGC
circSOX6-Forward	GCTCATTTACCTCAAGACTGTCC
circSOX6-Reverse	TGAACTCCTGTGCTCAAGGA
CUX1-Forward	CCAAGAGGGAGCTCCAAGTG
CUX1-Reverse	CTGTTCTGTGGTGTCTCGCT
RARA-Forward	AGCAGCCTAACCCAGAAGCAG
RARA-Reverse	GAGCCGGTCCTTTGGTCAAG
Caspase 1-Forward	ACAAGACCTCTGACAGCACG
Caspase 1-Reverse	TTCACTTCCTGCCCCACAGAC
β-actin-Forward	GGGAAATCGTGCGTGACATTAAG
β-actin-Reverse	TGTGTTGGCGTACAGGTCTTTG