

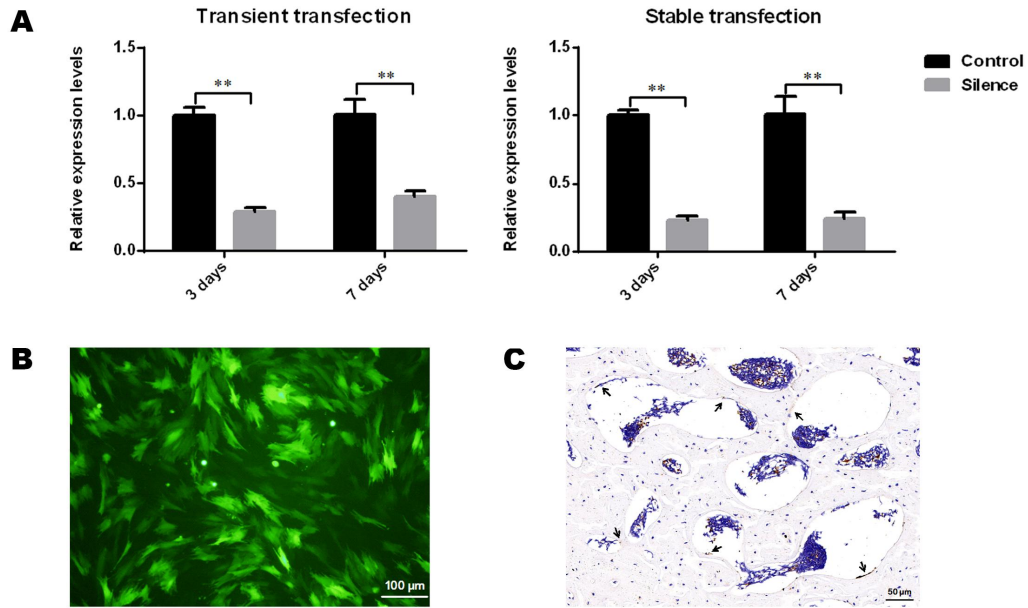


Figure S1. The efficiency of miR-137-3p silence and BMSC transplantation. (A B) qRT-PCR results showed that the expression of miR-137-3p was significantly downregulated after both transient and stable transfection on day 3 or 7. **(C)** Lentiviral transfection was employed to acquire GFP-labeled BMSCs. **(D)** The GFP immunohistochemistry of femoral head tissues was performed to examine the homing of BMSCs. The labeled cells were marked by black arrowheads. All values are presented as the mean $\pm$ SD, ** $P < 0.01$.

Table S1 The primers sequences used for qRT-PCR.

Genes	Forword primer sequence (5'-3')	Reverse primer sequence(5'-3')
miR-137-3p	TGCTTAAGAATACGCGTAGC	CAACTGGTGTCTGGAGT
U6	GCTTCGGCAGCACATAT	TGCGTGTCATCCTTGC
Runx2	ATCATTCACTGACACCACCA	TTTTGCCTTTAGCCCCCTACA
ALP	GCTCTGCCGTTGTTTCTCTA	AGATTCCCAAAGCACCTTAT
C/EBP α	TCAGACCAGAAGGCTGAGTT	AGGATGAAGACACTGGGACC
VEGF	TCAGGAGGACCTTGTGTGATC	CATTGCTCTGTACCTTGGGAA
CD31	CACCGTGATACTGAACAGCAA	GTCACAATCCACCTTCTGTC
GAPDH	TGCCACTCAGAAGACTGTGG	TTCAGCTCTGGGATGACCTT