

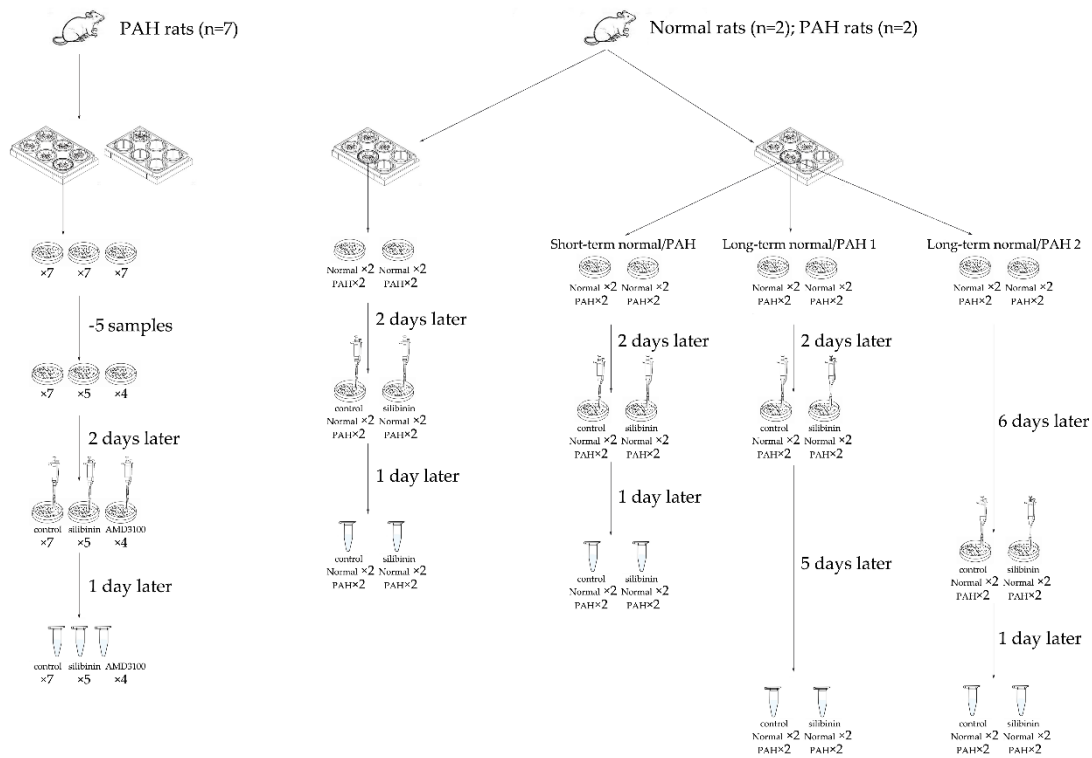


Figure S1. Graphical representation of BMCs preparation.

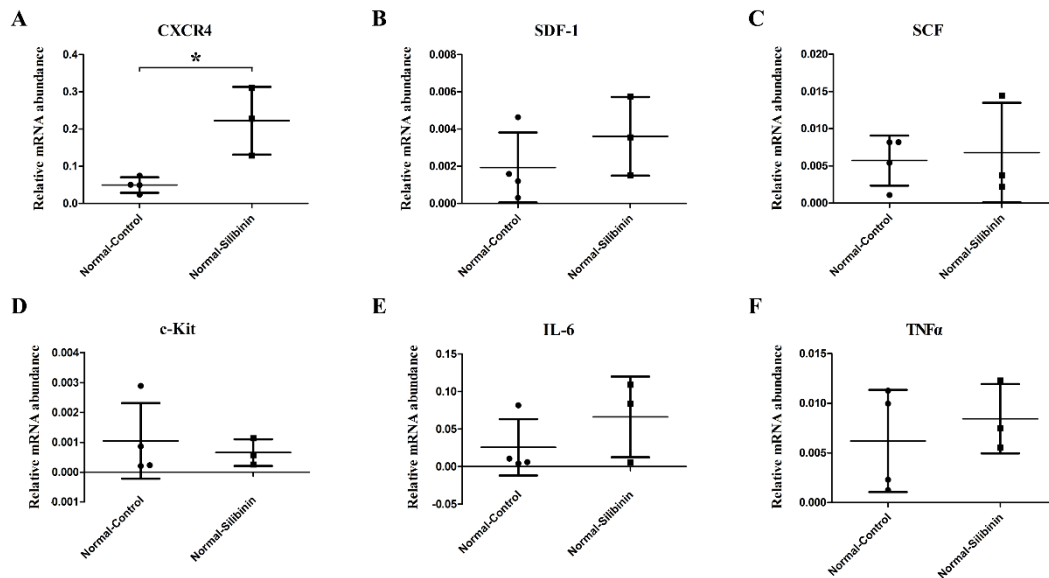
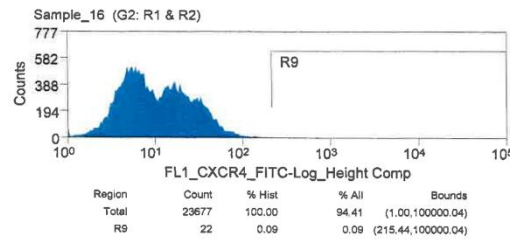
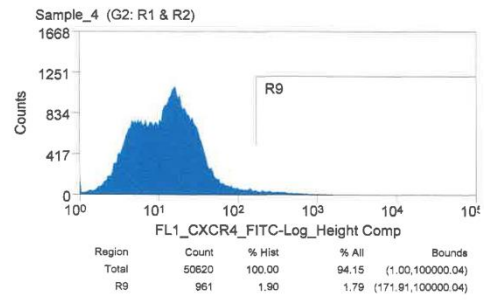


Figure S2. Comparison of gene expression levels of stem cell-related markers and inflammatory markers between control and silibinin treatment groups of normal samples. Silibinin significantly upregulated the expression of CXCR4 (A) in BM. However, silibinin did not upregulate the expression of stem cell markers-SDF-1 (B), SCF (C), c-Kit (D), inflammatory markers IL-6 (E) and TNFα (F) in BM. * $p < 0.05$. Treatment groups consisted of four samples in Normal-control group and three samples in Normal-Silibinin group.

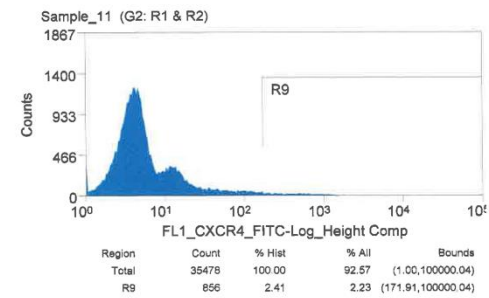
A Normal-control-1



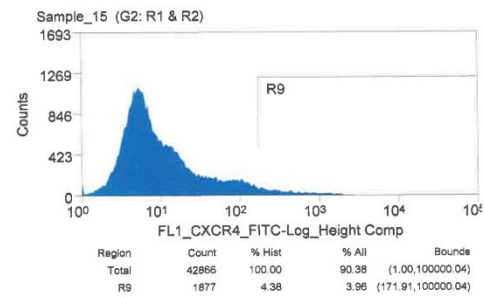
B Normal-control-2



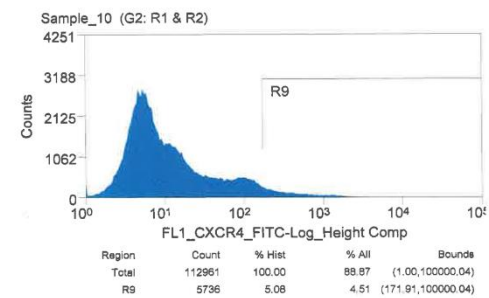
C Normal-control-3



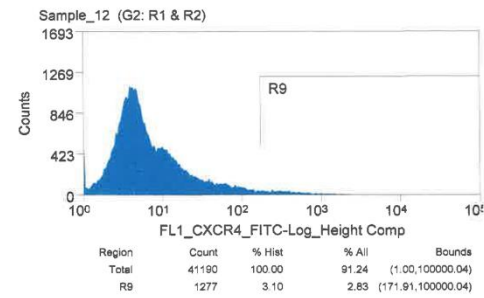
D Normal-silibinin-1



E Normal-silibinin-2



F Normal-silibinin-3



G

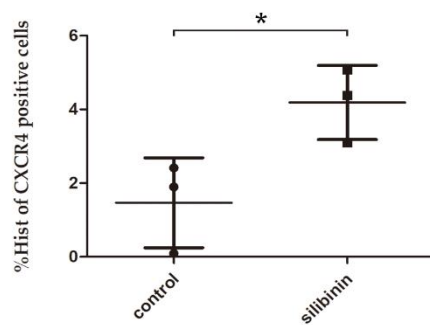


Figure S3. FCM evaluation of CXCR4 in normal rats using Moflo. (A–C) Three samples in Normal-control group, (D–F) Three samples in Normal-silibinin group. (G) In the BM of normal rats, silibinin upregulated the percentage of CXCR4-positive cells. $*p < 0.05$.

Table S1. Primers used for real-time PCR.

Gene	Forward primer	Reverse primer
CXCR4	5'-GCTGAGGAGCATGACAGACA-3'	5'-GATGAAGGCCAGGATGAGAA-3'
SDF-1	5'-TTTGGTCAGAGGAAGAGGGG-3'	5'-GTTTCACTACGGGCCACATC-3'
SCF	5'-TCGTGGCATGTATGGAAGAA-3'	5'-TCAGATGCCACCATGAAGTC-3'
c-Kit	5'-GATCTGCTCTGCGTCCTGTT-3'	5'-AGATGGCTGAGAAGTCCCTGT-3'
IL-6	5'-CCGGAGAGGAGACTTCACAG-3'	5'-ACAGTGCATCATCGCTGTTC-3'
TNF α	5'-TGACCCCCATTACTCTGACC-3'	5'-GGCCACTACTTCAGCGTCTC-3'
CD44	5'-TGGATCCGAATTAGCTGGAC-3'	5'-GCTTCTTCTTCTGCCCACAC-3'
CD29	5'-AACTGCACCAGCCCATTAG-3'	5'-CCACCTTCTGGAGAATCCAA-3'
CD34	5'-GTTGGAGTCCCACAGG-3'	5'-ATTGGCCTTTCCCTGA -3'
CD10	5'-ATATGCTTGTGGAGGCTGGT-3'	5'-TTGCCACCTCTGCTATCAA-3'
CD14	5'-CAACTTCTCAGATCCGCAGC-3'	5'-ACGCAGGGTTCCGAATAGAA-3'
ADGRE1	5'-ACACCCTTGGGAGCTACTTC-3'	5'-AGCTGCAGTTGTAGGAACCT-3'
β -actin	5'-CTAAGGCCAACCGTGAAAAG-3'	5'-GCCTGGATGGCTACGTACA-3'

CXCR4: C-X-C chemokine receptor type 4; SDF-1: stromal cell derived factor-1; SCF: stem cell factor; IL-6: interleukin-6; TNF α : Tumor Necrosis Factor α ; ADGRE1: Adhesion G protein-coupled receptor E1.