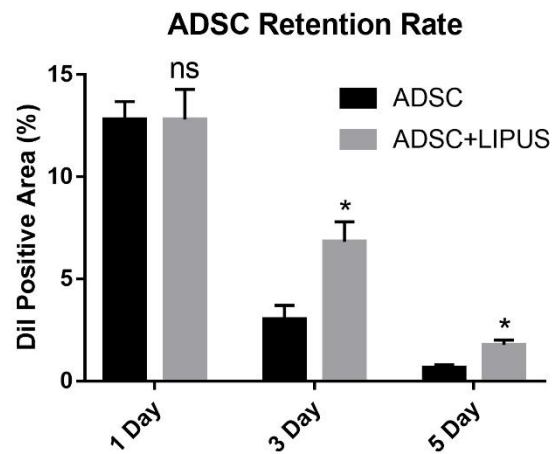
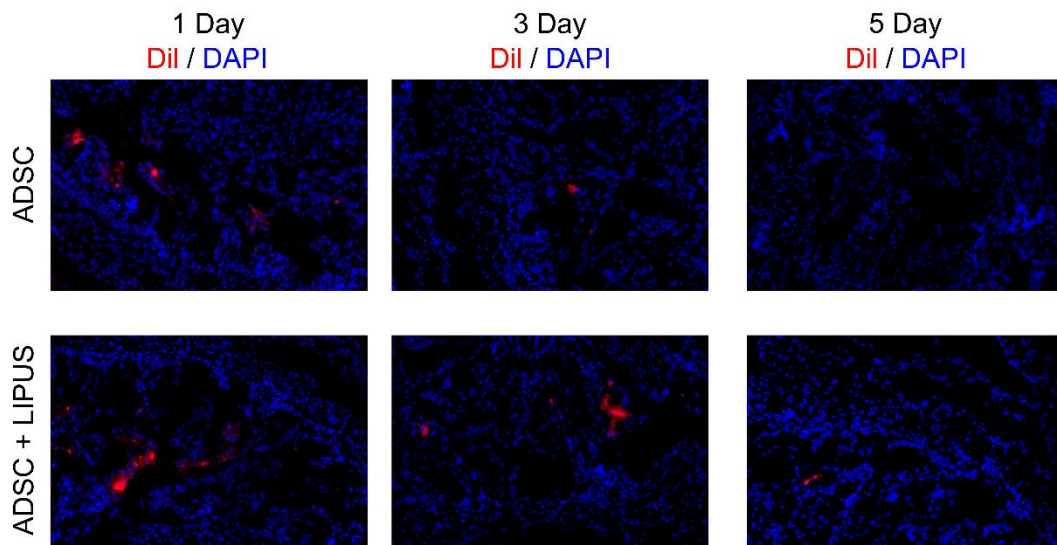
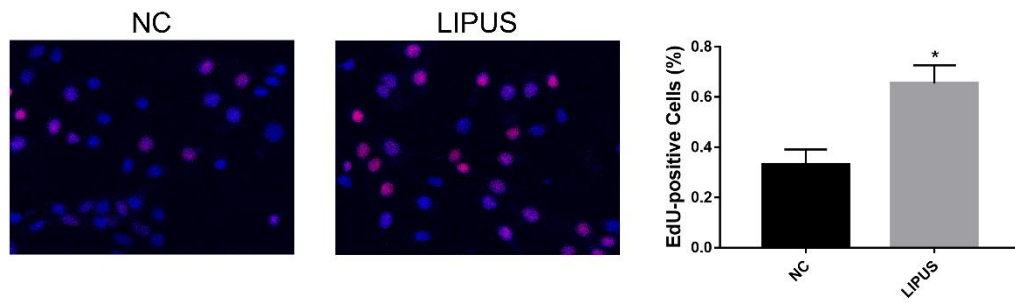


Primer	Primer Sequence
CXCL12-F	TGCCGATTCTTTGAGAGCCATGTC
CXCL12-R	GCAACAATCTGAAGGGCACAGTTTG
FGF2-F	CAAGCAGAAGAGAGAGGAGTTGTGTC
FGF2-R	CAGCCGTCCATCTTCCTTCATAGC
VEGF-F	CACCAAAGCCAGCACATAGGAGAG
VEGF-R	GTCTGCGGATCTTGACAAACAAATG
NGF-F	GGCGAGGTGAACATTAACAACAGTG
NGF-R	GTGTGAGTCGTGGTGCAGTATGAG
HGF-F	TCAGGACCTTGTGAGGGAGATTATGG
HGF-R	ACCAGGAACAATGACACCAAGAACC
IGF1-F	GAGATGTACTGTGCTCCGCTGAAG
IGF1-R	AGTGTACTTCCTTTCCTTCTCCTTTGC
GAPDH-F	CCACCAACTGCTTAGCCCCC
GAPDH-R	GCAGTGATGGCATGGACTGTGG

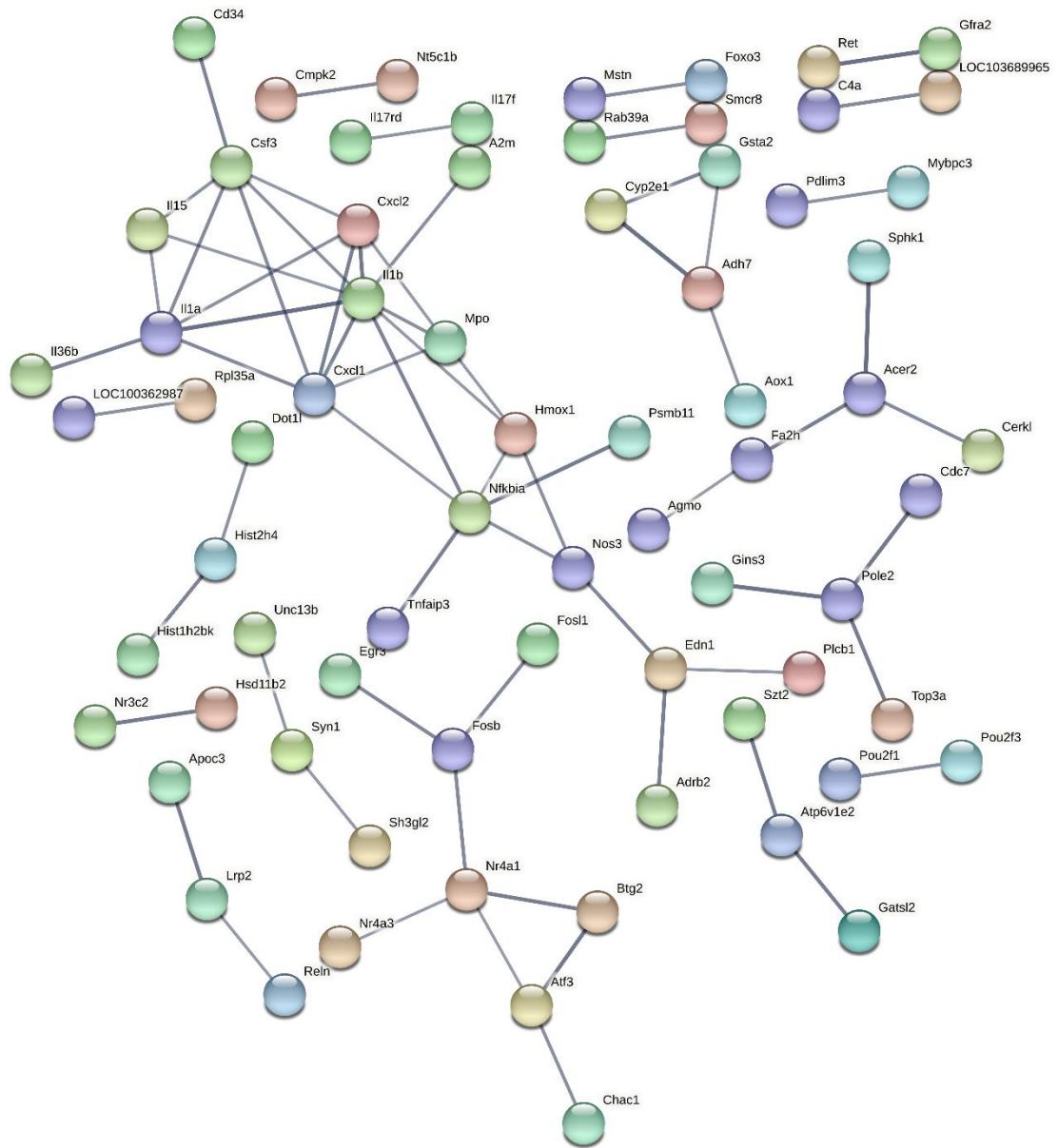
**Supplementary Table 1** Primers used for qRT-PCR.



**Supplementary Figure 1** The fate of transplanted ADSCs. No significant differences in the number of resident stem cells were observed one day after the transplantation. 3 and 5 days later, more ADSCs were retained in the cavernosum in the LIPUS treatment group. Data are presented as the mean  $\pm$  standard deviation. ns  $p > 0.05$  when comparing the ADSC group on the first day. \*  $p < 0.05$  when comparing the ADSC group on the third and fifth days.



**Supplementary Figure 2** The EdU staining of ADSCs. The percentage of EdU-positive cells in the LIPUS treatment group was significantly higher than that in the NC group. Data are presented as the mean  $\pm$  standard deviation. \*  $p < 0.05$  when comparing the NC group.



**Supplementary Figure 3** The protein–protein interaction network of DEGs of ADSCs without and with LIPUS stimulation.