

SUPPLEMENTARY TABLE S1. ANTIBODIES USED IN FLOW CYTOMETRY ANALYSIS

<i>Antibody</i>	<i>Fluorochrome</i>	<i>Company-catalog number</i>
Mouse anti-human CD34	APC	BD Pharmingen-555824
Mouse anti-human CD146	FITC	Bio Rad-MCA2141F
Mouse anti-human CD45	APC-cy7	BD Pharmingen-557833
Mouse anti-human CD31	APC-cy7	Bio Legend-303119
Mouse anti-human CD90	FITC	BD Pharmingen-555595
Mouse anti-human CD105	PE-CF594	BD Pharmingen-562380
Mouse anti-human CD73	PE	BD Pharmingen-561014
Mouse anti-human CD44	Alexa Fluor 7000	BD Pharmingen-561289

SUPPLEMENTARY TABLE S2. PERIVASCULAR STEM/STROMAL CELLS ISOLATION PROTOCOL DETAILS

<i>MicroBeads</i>	<i>Product number</i>	<i>Bead dilution</i>	<i>Cell density</i>	<i>Incubation</i>	<i>Column</i>
Anti-CD31	130-091-935	1:5	$1 \times 10^7/60 \mu\text{L}$	15 min, 4°C	LD-130-042-901
Anti-CD45	130-045-801	1:5	$1 \times 10^7/80 \mu\text{L}$	15 min, 4°C	LD-130-042-901
Anti-CD34	130-046-702	1:5	$1 \times 10^8/300 \mu\text{L}$	30 min, 4°C	LS-130-042-401
Anti-CD146	130-093-596	1:5	$1 \times 10^7/60 \mu\text{L}$	15 min, 4°C	MS-130-042-201

SUPPLEMENTARY TABLE S3. QUANTITATIVE REAL-TIME POLYMERASE CHAIN REACTION PRIMERS

<i>Gene</i>	<i>Forward</i>	<i>Reverse</i>
<i>ACTB</i>	5'-CTGGAACGGTGAAGGTGACA-3'	5'-AAGGGACTTCCTGTAACAATGCA-3'
<i>CEBP<math>\alpha</math></i>	5'-TGGACAAGAAGCAACGAGTA-3'	5'-ATTGTCAGTGGTCAGCTCCAG-3'
<i>COL2</i>	5'-CCGCGGTGAGCCATGATTCG-3'	5'-CAGGCCCAGGAGGTCCTTTGGG-3'
<i>FABP4</i>	5'-ACGAGAGGATGATAAACTGGTGG-3'	5'-GCGAACTTCAGTCCAGGTCAAC-3'
<i>LPL</i>	5'-TTGCAGAGAGAGGACTCGGA-3'	5'-GGAGTTGCACCTGTATGCCT-3'
<i>OPN</i>	5'-CCTCCTAGGCATCACCTGTG-3'	5'-CCACACTATCACCTCGGCC-3'
<i>OSX</i>	5'-GCCAGAAGCTGTGAAACCTC-3'	5'-GCTGCAAGCTCTCCATAACC-3'
<i>PPAR<math>\gamma</math></i>	5'-GGGGTGATGTGTTTGAACCTG-3'	5'-GACAGGAAAGACAACAGACAAATC-3'
<i>RUNX2</i>	5'-ATGGCGGGTAACGATGAAAAT-3'	5'-ACGGCGGGGAAGACTGTGC-3'

SUPPLEMENTARY TABLE S4. ANIMAL ALLOCATION

<i>Treatment group</i>	<i>Scaffold</i>	<i>Cell number</i>	<i>Defect number</i>
Empty	—	—	6
Scaffold alone	Hydroxyapatite-coated PLGA	—	6
MACS-derived PSC	—	$2.5 \times 10^5$ PSC	6
MACS-derived PSC+ODM	—	$2.5 \times 10^5$ PSC	4

MACS, magnetic-activated cell sorting; PLGA, poly(lactic-co-glycolic acid); PSC, perivascular stem/stromal cells.