

Supplementary Information

Figure S1. The analysis of a microarray data set as a heat map comparing global gene expression patterns among AF-MSCs cultured under hypoxic and normoxic condition.

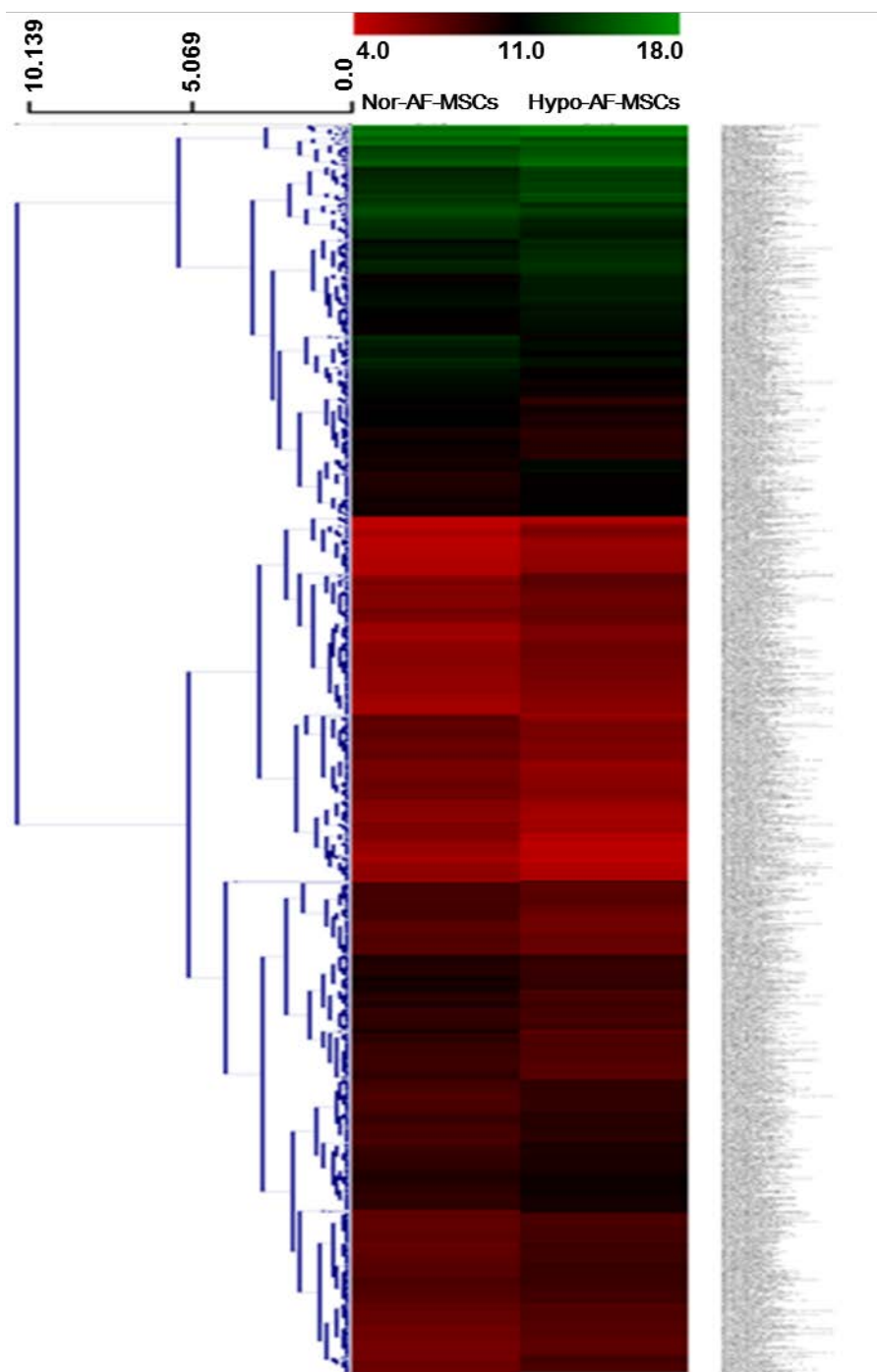


Table S1. Primer sequences used in RT-PCR and real-time PCR.

Gene	Accession No.	Primer sequence (5'-3')	Annealing Temperature (°C)	Product Size (bp)
<i>VEGF</i>	NM_001204385.1	F-CTACCTCCACCATGCCAAGT R-GCAGTAGCTGCGCTGATAGA	62	109
<i>Osteopontin</i>	NM_001040060	F-GAGACCCTTCCAAGTAAGTCCA R-GATGTCCTCGTCTGTAGCATCA	62	354
<i>Osteocalcin</i>	NM_199173	F-GAGCCCCAGTCCCCCTACCC R-GCCTCCTGAAAGCCGATGTG	62	405
<i>LPL2</i>	NM_000237	F-AGAGAGGACTTGAGATGTGGA R-GGAAGACTTTGTAGGGCATCTG	62	264
<i>aP2</i>	NM_001442	F-AAGAAGTAGGAGTGGGCTTTGC R-CCACCACCAGTTTATCATCCTC	62	285
<i>PPARγ</i>	NM_005037	F-TTGGTGACTTTATGGAGCCC R-CATGTCTGTCTCCGTCTTCTTG	62	311
<i>Collagen 3</i>	NM_000090.3	F-CTGAAATTCTGCCATCCTGAAC R-GGATTGCCGTAGCTAAACTGAA	62	236
<i>Vitronectin</i>	NM_000638.3	F-ACGATGGCGAGGAGAAAAAC R-TATTTTCGGGGTAATCAGGG	62	492
<i>Fibronectin</i>	NM_002026.2	F-AAGATTGGAGAGAAGTGGGACC R-GAGCAAATGGCACCGAGATA	62	179
<i>MMP1</i>	NM_002421.2	F-TTGAGAAAGCCTTCCAACCTCTG R-CCGCAACACGATGTAAGTTGTA	62	250
<i>Syndecan 2</i>	NM_002998.3	F-CAGAAACCAACAAGTGAGAGGG R-AGCTTCTTCAATGGAGCTGTTG	62	361
<i>Syndecan 4</i>	NM_002999.2	F-CCTAGAAGGCCGATACTTCTCC R-ACCTTGTTGGACACATCCTCAC	62	292
<i>Elastin</i>	NM_000501.1	F-ATCAACGTTGGTGCTACTGCTT R-ATCTTTAGAGGAGCCCCAGGTA	62	362
<i>SPP1</i>	NM_001040060.1	F-CTGGAAGTTCTGAGGAAAAGCA R-TCAGGGTACTGGATGTCAGGTC	62v	401
<i>GAPDH</i>	NM_002046	F-GTGGTCTCCTCTGACTTCAACA R-CTCTTCCTCTTGTGCTCTTGCT	62	211

Table S2. Antibody used in FACS, western blot, ELIZA, IF, and IHC.

Antibody	Company	Host
CD13	R&D System	Mouse
CD29	BD Bioscience	Mouse
CD31	BD Bioscience	Mouse
CD34	BD Bioscience	Mouse
CD44	BD Bioscience	Mouse
CD90	BD Bioscience	Mouse
p21	Cell Signaling	Mouse
pRb	Cell Signaling	Rabbit
p-Akt	Cell Signaling	Rabbit
Akt	Cell Signaling	Rabbit
PI3K	Cell Signaling	Rabbit
p-MEK	Cell Signaling	Rabbit
MEK	Cell Signaling	Rabbit
p-ERK	Cell Signaling	Rabbit
ERK	Santa Cruz	Goat
p-SMAD2	Cell Signaling	Rabbit
p-SMAD3	Cell Signaling	Rabbit
SMAD2/3	Cell Signaling	Rabbit
HIF1- α	Abcam	Mouse
TGF- β 1	Cell signaling	Rabbit
Fibronectin	Abcam	Mouse
Laminin	Millipore	Mouse
β -Actin	Sigma	Rabbit
Tubulin	Sigma	Mouse

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