

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Effect of  $\alpha$ -Man on body weight of old mice.**

Week	Body weight (g)			
	Y	O	L	H
0	24.32±2.31	40.34±5.37 <sup>##</sup>	37.92±5.32	38.94±4.79
1	24.66±2.41	39.26±5.42 <sup>##</sup>	34.52±4.58	34.2±4.71
2	24.66±2.48	39.22±5.37 <sup>##</sup>	34.18±4.27	33.68±4.29
3	25.06±2.10	39.04±5.40 <sup>##</sup>	34.34±3.87	32.66±6.39
4	26.46±1.63	39.84±4.22 <sup>##</sup>	35.08±3.84	31.50±4.88 <sup>**</sup>
5	26.54±1.53	38.30±3.63 <sup>##</sup>	34.72±3.68	31.14±4.40 <sup>*</sup>
6	25.76±1.80	37.22±4.03 <sup>##</sup>	34.56±3.71	30.28±4.19 <sup>*</sup>
7	26.44±2.14	37.02±4.01 <sup>##</sup>	33.58±3.66	30.58±3.16 <sup>*</sup>
8	26.00±2.12	36.50±3.54 <sup>##</sup>	32.42±3.15	30.48±3.06 <sup>*</sup>

<sup>##</sup>*P* < 0.01 old mice vs. young mice. <sup>\*</sup>*P* < 0.05, <sup>\*\*</sup>*P* < 0.01  $\alpha$ -Man vs. old mice.

**Supplementary Table 2. List of oligonucleotide primer pairs used in qRT-PCR.**

Gene	Forward	Reverse
<i>18S</i>	AGCCTGCGGCTTAATTTGAC	CAACTAAGAACGGCCATGCA
<i>Arg-1</i>	CTCCAAGCCAAAGTCCTTAGAG	AGGAGCTGTCATTAGGGACATC
<i>Ccl5</i>	TGCAGAGGACTCTGAGACAGC	GAGTGGTGTCCGAGCCATA
<i>Ccl11</i>	AGAGCTCCACAGCGCTTCT	GCAGGAAGTTGGGATGGA
<i>Cd11c</i>	CTGGATAGCCTTTCTTCTGCTG	GCACACTGTGTCCGAACTC
<i>Cd206</i>	CAGGTGTGGGCTCAGGTAGT	TGTGGTGAGCTGAAAGGTGA
<i>Cd68</i>	CCTTATGGACAGCTTACCTTTGG	CTGAGCAGCCTGTAGCCTTAGAG
<i>Cox-2</i>	CCACCTCTGCGATGCTCTTC	CATTCCCCACGGTTTTGACATG
<i>Cx3c1l</i>	CATCCGCTATCAGCTAAACCA	CAGAAGCGTCTGTGCTGTGT
<i>Cxcl10</i>	GCTGCCGTCATTTTCTGC	TCTCACTGGCCCGTCATC
<i>F4/80</i>	CTTTGGCTATGGGCTTCCAGTC	GCAAGGAGGACAGAGTTTATCGTG
<i>Ifn-<math>\gamma</math></i>	GTCATTGAAAGCCTAGAAAGTCTGA	CTGTGGGTTGTTGACCTCAAACCT
<i>Il-1<math>\beta</math></i>	TGTTCTTTGAAGTTGACGGACCC	TCATCTCGGAGCCTGTAGTGC
<i>Il-6</i>	CCAGAGATACAAAGAAATGATGG	ACTCCAGAAGACCAGAGGAAAT
<i>iNos</i>	CCAAGCCCTCACCTACTTCC	CTCTGAGGGCTGACACAAGG
<i>Mcp-1</i>	CAACTCTCACTGAAGCCAGCTC	TAGCTCTCCAGCCTACTCATTGG
<i>Mip-1a</i>	CTTCTCTGTACCATGACACTCTGC	ATTCAGTTCCAGGTCAGTGATGTAT
<i>Tnf-<math>\alpha</math></i>	GAGAAAGTCAACCTCCTCTCTG	GAAGACTCCTCCAGGTATATG

**Supplementary Table 3. List of miRNA primers used in qRT-PCR.**

miRNA	Company	Catalog number
U6 snRNA RT-PCR primer	Thermo Fisher Scientific	4427975(ID#001973)
miR-155 RT-PCR primer	Thermo Fisher Scientific	4427975(ID#002571)
Cel-miR-39	Thermo Fisher Scientific	4427975(ID#000200)

**Supplementary Table 4. Antibodies used for Western blot and flow cytometry.**

<b>Antibody</b>	<b>Source</b>	<b>Vendor</b>	<b>Catalog No.</b>
anti-phospho-JNK (Thr183/Tyr185)	Mouse	Santa Cruz Biotechnology	sc-6254
anti-JNK	Rabbit	Santa Cruz Biotechnology	sc-571
anti-phospho-p38 (Thr180/Tyr182)	Rabbit	Cell Signaling Technology	#4511
anti-p38	Rabbit	Cell Signaling Technology	#8690
anti-phospho-ERK (Thr202/Tyr204)	Rabbit	Cell Signaling Technology	#4370
anti-ERK	Rabbit	Cell Signaling Technology	#4695
anti-phospho-p65 (Ser536)	Rabbit	Cell Signaling Technology	#3033
anti- p65	Rabbit	Cell Signaling Technology	#8242
anti-phospho-IKK $\alpha$ / $\beta$ (Ser176/180)	Rabbit	Cell Signaling Technology	#2697
anti-IKK $\alpha$	Mouse	Cell Signaling Technology	#11930
anti-IKK $\beta$	Rabbit	Cell Signaling Technology	#8943
anti-phospho-I $\kappa$ B $\alpha$ (Ser32)	Rabbit	Cell Signaling Technology	#2859
anti-I $\kappa$ B $\alpha$	Mouse	Cell Signaling Technology	#4814
anti-iNOS	Rabbit	Cell Signaling Technology	#13120
anti-COX2	Rabbit	Cell Signaling Technology	#12282
anti-SIRT3	Rabbit	Cell Signaling Technology	#5490
anti-AKT	Rabbit	Santa Cruz Biotechnology	sc-8312
anti- phospho-AKT (Ser473)	Rabbit	Santa Cruz Biotechnology	sc-7985-R
anti-perilipin	Rabbit	Cell Signaling Technology	#9349
anti-CD68	Rabbit	ABclonal	A6554
anti-F4/80	Mouse	eBioscience	12-4801-82
anti-F4/80	Mouse	Santa Cruz Biotechnology	sc-377009
anti-CD11c	Mouse	BD Bioscience	557400
anti-CD11c	Rabbit	ABclonal	A1508
anti-CD206	Mouse	BioLegend	141708
anti-CD206	Rabbit	Abcam	ab64693
$\alpha$ -tubulin	Mouse	Santa Cruz Biotechnology	sc-8035
$\beta$ -actin	Rabbit	Cell Signaling Technology	#8457
GAPDH	Rabbit	Santa Cruz Biotechnology	sc-25778
Histone H3	Rabbit	Santa Cruz Biotechnology	sc-10809