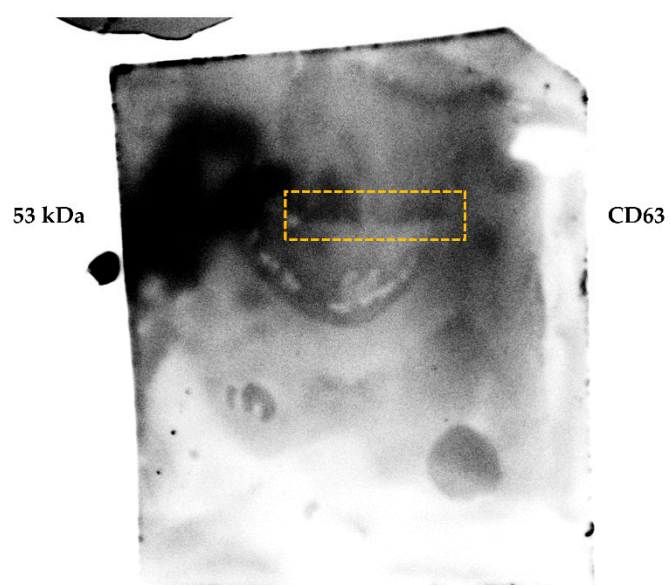
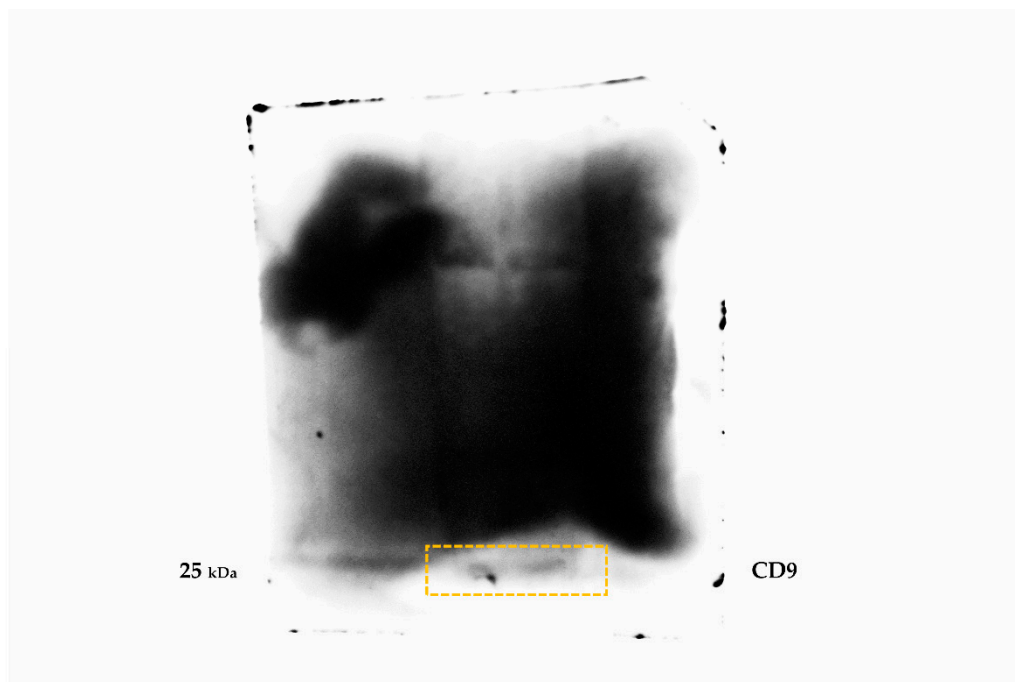


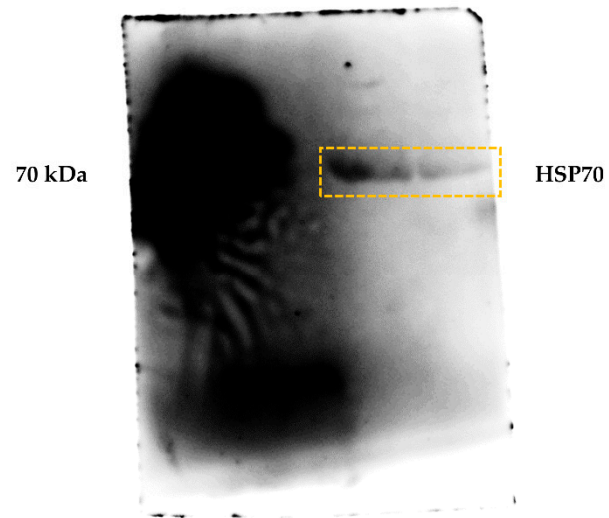
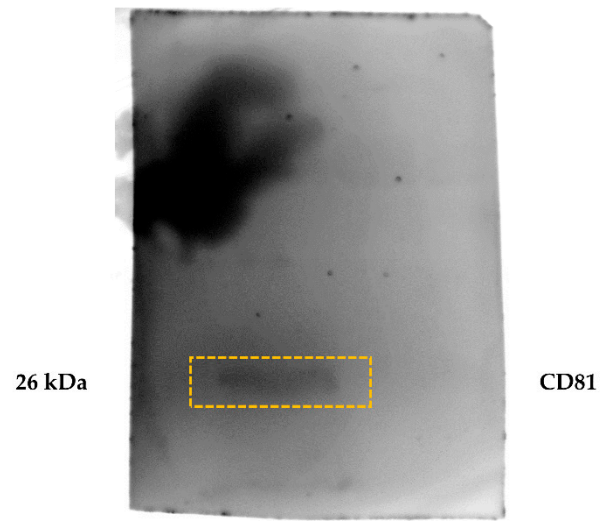
**Supplementary information**

# **Selenium-Stimulated Exosomes Enhance Wound Healing by Modulating Inflammation and Angiogenesis**

**June Seok Heo**

Cell Therapy Center, Severance Hospital, Seoul 03722, Korea





**Figure S1.** CD9, CD63, CD81 and HSP70 of exosomal markers were detected in AdMSCs-derived exosomes by Western blot assay.

**Table S1.** Primers sequences used for real-time PCR.

Primer Name	Sequence
GAPDH	F: ACCCACTCCTCCACCTTTGA R: CTGTTGCTGTAGCCAAATTCGT
IL-6	F: AGACAGCCACTCACCTCTTCAG R: TTCTGCCAGTGCCTCTTTGCTG
IL-8	F: AAGAGAGCTCTGTCTGGACC R: GATATTCTCTTGGCCCTTGG
TSG-6	F: GGTGTGTACCACAGAGAAGCA R: GGGTTGTAGCAATAGGCATCC
TGF- $\beta$ 1	F: TACCTGAACCCGTGTTGCTCTC R: GTTGCTGAGGTATCGCCAGGAA
Runx2	F: TTGCAGCCATAAGAGGGTAG R: GTCACTTTCTTGGAGCAGGA
TNF $\alpha$	F: TTGAGGGTTTGCTACAACATGGG R: GCTGCACTTTGGAGTGATCG
Arginase-1	F: ACAGTTTGGCAATTGGAAGCA R: CACCCAGATGACTCCAAGATCAG
CD206 (Mannose receptor)	F: TTCGGACACCCATCGGAATTT R: CACAAGCGCTGCGTGGAT
Type I collagen	F: GTCACCCACCGACCAAGAAACC R: AAGTCCAGGCTGTCCAGGGATG
Type III collagen	F: GGAGCTGGCTACTTCTCGC R: GGGAACATCCTCCTTCAACAG
BMP7	F: CCAACGTCATCCTGAAGAAATAC R: GCTTGTAGGATCTTGTTCAATTGG
C/EBPA	F: CCAAGAAGTCGGTGGACAAGAA R: TCATTGTCACTGGTCAGCTCCA
IL-10	F: TCTCCGAGATGCCTTCAGCAGA R: TCAGACAAGGCTTGGCAACCCA
p16	F: CGAATAGTTACGGTCGGAGG R: GCATGGTTACTGCCTCTGGT

p21	F: GCGATGGAACCTTCGACTTTG R: CGTTTTTCGACCCTGAGAGAGTC
CD163	F: CGGCTGCCTCCACCTCTAAGT R: ATGAAGATGCTGGCGTGACA
Angiopoietin1 (ANGPT1)	F: CTTCAAGGCTTGGTTACTCGTC R: CTCTTCCTCTCTTTTCCTCCC
KDR (Flk-1)	F: AACGACTGCCTTATGATGCC R: ACTGTCCTGCAAGTTGCTGTC
Vasohibin1 (VASH1)	F: CTCAAGATTGGCAAAGGGACG R: TTCACTGCGGCTGTTCTCTGC
VEGF	F: AGCCTTGTTTCAGAGCGGAGAA R: TAACTCAAGCTGCCTCGCCTT
$\alpha$ SMA	F: ACTGAGCGTGGCTATTCCTCCGTT R: GCAGTGGCCATCTCATTTC
Elastin	F: GGCCATTCCTGGTGGAGTTCC R: AACTGGCTTAAGAGGTTTGCCTCCA

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**Table S2.** Upregulation of miRNAs in exosomes secreted by AMSCs.

	Gained miRNAs	Sel-Exos/Exos
Anti-Inflammatory	miR-146a-5p	94.612
	miR-340-5p	38.002
	miR-223-3p	34.601
	miR-125b-5p	19.029
	miR-16-5p	12.443
	miR-149-3p	12.443
	miR-105-5p	11.715
	miR-181c-3p	11.715
	miR-146b-5p	4.767
	miR-181a-5p	3.795
Pro-Angiogenic	miR-378a-3p	2.546
Proliferation/Migration	miR-205-5p	118.861
	miR-146a-5p	94.612
	miR-184	3.814
Remodeling	miR-129-5p	1202.524
	miR-29b-3p	594.584

**Table S3.** Downregulation of miRNAs in exosomes secreted by AMSCs.

Lost miRNAs		Sel-Exos/Exos
Pro-Inflammatory	miR-140-5p	0.002
	miR-33a-5p	0.072
	miR-155-5p	0.403
Anti-Angiogenic	miR-20a-5p	0.001
	miR-192-5p	0.107
	miR-24-3p	0.292
	miR-320b	0.305
Anti-Proliferation/Migration	miR-99b-3p	0.00007
	miR-185-5p	0.031
	miR-141-3p	0.351

**Figure S2.** Gene ontology enrichment of the top 10 upregulated miRNAs.

