

**SUPPLEMENTARY TABLES**

**Supplementary Table 1. Production of inflammatory cytokines and chemokines by non-senescent HUVECs (NC HUVEC) and IR-induced senescent HUVECs (IR HUVEC) 24 hours after incubation with vehicle or stimulated with 30 ng/ml LPS.**

	1	2	3	4	P-Value			
	NC HUVEC + vehicle (pg/mL)	NC HUVEC + LPS (pg/mL)	IR HUVEC + vehicle (pg/mL)	IR HUVEC + LPS (pg/mL)	1 vs 2	3 vs 4	1 vs 3	2 vs 4
sCD40L	3.25 ± 0.49	5.41 ± 0.93	62.67 ± 10.83	105.33 ± 7.09	**	***	***	***
Eotaxin	1.55 ± 0.30	2.29 ± 0.48	32.83 ± 5.65	51.61 ± 4.53	*	**	***	***
FLT-3L	0.86 ± 0.03	0.92 ± 0.06	17.30 ± 2.61	24.12 ± 3.06	NS	*	***	***
Fractalkine	3.96 ± 5.02	14.46 ± 2.44	226.23 ± 34.29	274.62 ± 49.88	**	NS	***	***
G-CSF	125.68 ± 1.94	998.16 ± 153.67	25472.97 ± 4318.10	39264.89 ± 5329.63	***	**	***	***
GM-CSF	14.62 ± 0.75	108.49 ± 13.78	1843.58 ± 291.68	5074.77 ± 1423.94	***	**	***	***
GRO $\alpha$	683.37 ± 36.05	1689.77 ± 408.61	13823.24 ± 1849.17	21218.77 ± 4531.09	**	*	***	***
IFN- $\alpha$ 2	3.91 ± 0.42	4.88 ± 0.46	58.55 ± 10.43	81.45 ± 16.95	*	0.06	***	***
IFN $\gamma$	0.28 ± 0.03	0.44 ± 0.05	5.53 ± 0.94	8.13 ± 1.46	**	*	***	***
IL1 $\alpha$	1.66 ± 0.05	3.44 ± 0.16	18.74 ± 3.79	41.19 ± 9.42	***	**	***	***
IL1 $\beta$	0.82 ± 0.58	1.75 ± 0.43	27.35 ± 6.40	36.50 ± 10.84	*	NS	***	***
IL1RA	0.34 ± 0.02	0.56 ± 0.03	6.51 ± 1.24	9.07 ± 0.99	***	*	***	***
IL2	0.04 ± 0.04	0.17 ± 0.02	2.48 ± 0.52	2.77 ± 0.37	***	NS	***	***
IL3	0.03 ± 0.05	0.01 ± 0.01	0.64 ± 0.71	1.58 ± 0.60	NS	NS	NS	**
IL4	0.11 ± 0.02	0.18 ± 0.01	1.68 ± 0.15	2.23 ± 0.36	***	*	***	***
IL5	0.04 ± 0.01	0.05 ± 0.01	0.65 ± 0.08	0.98 ± 0.21	NS	*	***	***
IL6	620.70 ± 111.76	3370.38 ± 531.38	36667.56 ± 5926.87	54897.55 ± 10508.26	***	*	***	***
IL8	655.64 ± 99.89	2491.95 ± 412.60	52105.49 ± 1449.75	74359.67 ± 21676.26	***	0.08	***	***
IL9	1.29 ± 0.07	2.08 ± 0.05	23.26 ± 2.66	31.64 ± 3.07	***	**	***	***
IL10	0.36 ± 0.03	0.74 ± 0.09	8.92 ± 1.30	13.44 ± 1.22	***	**	***	***
IL12p40	3.45 ± 0.47	5.61 ± 0.42	64.81 ± 1.01	94.14 ± 12.44	***	**	***	***
IL12p70	0.02 ± 0.04	0.18 ± 0.17	1.09 ± 0.75	1.47 ± 1.29	NS	NS	*	0.09
IL13	1.64 ± 1.00	2.48 ± 0.64	35.57 ± 7.20	41.18 ± 11.60	NS	NS	***	***
IL15	2.35 ± 0.20	3.23 ± 0.12	70.19 ± 9.16	114.07 ± 20.15	***	**	***	***
IL17A	0.14 ± 0.08	0.63 ± 0.12	7.95 ± 0.38	8.55 ± 1.74	***	NS	***	***
IL17E/IL25	3.18 ± 0.64	7.55 ± 0.45	116.91 ± 14.03	169.48 ± 20.66	***	**	***	***
IL17F	0.47 ± 0.38	1.16 ± 0.23	22.10 ± 2.85	26.54 ± 4.69	*	NS	***	***
IL18	0.11 ± 0.03	0.19 ± 0.02	1.94 ± 0.25	2.98 ± 0.32	**	**	***	***
IL22	0.00 ± 0.00	18.17 ± 1.17	265.59 ± 50.25	400.75 ± 33.91	***	**	***	***
IL27	12.96 ± 8.76	14.82 ± 3.10	356.25 ± 46.48	394.11 ± 63.50	NS	NS	***	***
IP10	23.06 ± 3.51	136.26 ± 14.19	29473.26 ± 14267.88	29360.89 ± 11899.07	***	NS	**	**
MCP3	22.41 ± 0.64	72.38 ± 9.53	186.56 ± 27.39	305.38 ± 54.25	***	**	***	***
MCSF	34.67 ± 0.93	48.74 ± 2.95	615.57 ± 89.70	1044.27 ± 166.75	***	**	***	***
MDC	0.01 ± 0.01	0.05 ± 0.02	0.73 ± 0.23	1.07 ± 0.26	*	0.08	***	***
MIG/CXCL9	2.70 ± 0.24	6.25 ± 0.57	252.02 ± 55.18	378.85 ± 75.79	***	*	***	***
MIP-1 $\beta$	0.00 ± 0.00	0.00 ± 0.00	26.05 ± 7.52	30.06 ± 6.11	NS	NS	***	***
PDGF-AA	430.88 ± 14.86	440.39 ± 58.44	754 ± 114.06	1142.28 ± 254.60	NS	*	***	***
PDGF-AB/BB	645.98 ± 11.48	758.43 ± 86.22	4730.46 ± 718.48	9212.95 ± 1718.97	*	**	***	***
RANTES	13.45 ± 1.88	21.75 ± 1.33	9275.92 ± 2226.48	17334.21 ± 16977.73	***	NS	***	0.08
TGF $\alpha$	0.83 ± 0.09	1.32 ± 0.23	130.71 ± 25.25	223.88 ± 45.16	**	*	***	***
TNF $\alpha$	3.39 ± 0.21	5.68 ± 0.48	130.71 ± 25.25	223.88 ± 45.16	**	*	***	***
TNF $\beta$	1.88 ± 0.15	3.54 ± 0.27	49.75 ± 3.38	69.75 ± 11.17	***	*	***	***
Eotaxin-2	0.27 ± 0.11	0.65 ± 0.15	2.67 ± 1.45	4.78 ± 2.80	**	NS	*	*
MCP-2	3.98 ± 0.41	6.13 ± 0.58	2025.50 ± 320.31	4026.44 ± 427.57	***	***	***	***
BCA-1	0.31 ± 0.03	0.30 ± 0.04	2.98 ± 0.86	3.65 ± 0.71	NS	NS	***	***
I-309	0.42 ± 0.02	1.10 ± 0.11	2.19 ± 0.35	2.73 ± 0.49	***	NS	***	***
IL16	2.18 ± 0.70	2.20 ± 1.60	12.70 ± 21.47	22.57 ± 22.25	NS	NS	NS	NS
TARC	0.05 ± 0.04	0.07 ± 0.04	0.66 ± 0.61	0.91 ± 0.54	NS	NS	0.09	*

SCF	1.07 ± 0.35	1.19 ± 0.18	55.23 ± 10.57	113.49 ± 16.47	NS	**	***	***
IL33	1.67 ± 0.28	1.61 ± 0.50	15.92 ± 6.71	16.80 ± 4.49	NS	NS	**	***
IL21	0.74 ± 0.31	0.66 ± 0.16	7.62 ± 1.68	8.50 ± 3.16	NS	NS	***	**
IL23	20.58 ± 15.29	13.03 ± 6.14	182.15 ± 70.78	66.92 ± 65.34	NS	0.05	**	NS
TRAIL	2.42 ± 0.15	2.93 ± 0.41	71.80 ± 17.18	85.64 ± 10.35	0.06	NS	***	***
SDF-1α+β	0.00 ± 0.00	19.83 ± 24.89	232.60 ± 280.75	430.73 ± 290.46	NS	NS	NS	*
ENA-78	55.09 ± 5.29	407.35 ± 43.44	9255.07 ± 158.57	17449.80 ± 3021.68	***	**	***	***

(n = 4; mean ± SD; \* p<0.05 \*\* p<0.01 \*\*\* p<0.001).

**Supplementary Table 2. List of primers used for qPCR.**

Gene	Forward primer	Reverse primer
<i>GAPDH</i>	GTCTCCTCTGACTTCAACAGCG	ACCACCCTGTTGCTGTAGCCAA
<i>IL6</i>	AGACAGCCACTCACCTCTTCAG	TTCTGCCAGTGCCTCTTTGCTG
<i>IL1β</i>	CCACAGACCTTCCAGGAGAATG	GTGCAGTTCAGTGATCGTACAGG
<i>TNFα</i>	CTCTTCTGCCTGCTGCACTTTG	ATGGGCTACAGGCTTGCTCACTC
<i>CCL2</i>	GTCTCTGCCGCCCTTCTGT	TTGCATCTGGCTGAGCGAG
<i>CCL5</i>	CCTGCTGCTTTGCCACATTGC	ACACACTTGGCGGTTCTTTCCGG
<i>CXCL1</i>	AGGGAATTCACCCCAAGAAC	ACTATGGGGGATGCAGGATT
<i>CXCL10</i>	GGTGAGAAGAGATGTCTGAATCC	GTCCATCCTTGAAGCACTGCA
<i>p16</i>	CTCGTGCTGATGCTACTGAGGA	GGTCGGCGCAGTTGGGCTCC
<i>p21</i>	AGGTGGACCTGGAGACTCTCAG	TCCTCTTGGAGAAGATCAGCCG

**Supplementary Table 3. List of antibodies used for western-blot.**

Protein	Dilution	Vendor	Cat. #
β-Actin	1:1000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	4970S
GAPDH	1:1000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	97166S
p-p38 MAPK	1:1000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	4511S
p38 MAPK	1:1000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	8690S
NF-κB p65	1:1000 in 5% milk	BD Biosciences, San Jose, CA, USA	610869
TLR4	1:200 in 5% milk	Santa Cruz Biotechnology, Inc., Dallas, TX, USA	sc-293072
IL1R1	1:200 in 5% milk	Santa Cruz Biotechnology, Inc., Dallas, TX, USA	sc-393998
IL1R2	1:200 in 5% milk	Santa Cruz Biotechnology, Inc., Dallas, TX, USA	sc-376247
TNFR1	1:200 in 5% milk	Santa Cruz Biotechnology, Inc., Dallas, TX, USA	sc-8436
Histone H3	1:1000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	4499S
Anti-Mouse IgG (HRP-Linked)	1:3000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	7076S
Anti-Rabbit IgG (HRP-Linked)	1:3000 in 5% milk	Cell Signaling Technologies, Danvers, MA, USA	7074S