

Supplemental Table 5. Comparison of cytokine levels in in tissue homogenates of quadriceps from weight-bearing controls (Control) or animals subjected to hindlimb suspension then immediately sacrificed (HLS), permitted eight days of re-ambulation (Re-A), or re-ambulation plus instrument-assisted soft tissue manipulation (Re-A+IASTM). Total protein was pooled at equal ratios for n=5 for Control, n=6 for HLS, n=7 Re-A and n=8 Re-A+IASTM animals. Data are mean signal density relative to the average reference spot density normalized to Control. Green and pink highlight indicates $\geq 25\%$ increase or decrease, respectively, compared to Control.

	Analyte	Control	HLS	Re-A	Re-A+IASTM
A3, A4	Adiponectin/Acrp30	1	0.96	1.00	0.96
A5, A6	CCL2/JE/MCP-1	1	1.18	1.53	1.76
A7, A8	CCL3/CCL4/MIP-1 α / β	1	1.11	1.05	1.46
A9, A10	CCL5/RANTES	1	1.00	1.19	1.34
A11, A12	CCL11/Eotaxin	1	0.98	0.99	1.30
A13, A14	CCL17/TARC	1	1.05	0.80	0.92
A15, A16	CCL20/MIP-3 α	1	0.90	0.63	0.90
A17, A18	CCL21/6Ckine	1	1.19	0.90	1.20
A19, A20	CCL22/MDC	1	1.69	1.23	2.02
A21, A22	Clusterin	1	1.04	0.85	1.73
B3, B4	CNTF	1	1.69	1.02	2.80
B5, B6	CX3CL1/Fractalkine	1	1.25	1.30	1.62
B7, B8	CXCL2/GRO β /MIP-2/CINC-3	1	0.97	1.22	1.55
B9, B10	CXCL7/Thymus Chemokine-1	1	0.66	0.53	0.71
B11, B12	Cyr61/CCN1	1	1.11	1.26	1.51
B13, B14	Cystatin C	1	1.13	0.90	0.83
B15, B16	DPPIV/CD26	1	0.87	0.75	1.24
B17, B18	EGF	1	0.90	1.07	0.89
B19, B20	EG-VEGF/PK1	1	1.24	1.17	1.79
B21, B22	Endostatin	1	0.85	0.79	1.19
C3, C4	Fetuin A/AHSG	1	0.91	0.85	1.07
C5, C6	FGF acidic	1	1.06	0.96	1.17
C7, C8	FGF-7/KGF	1	1.29	0.94	1.11
C9, C10	FGF-21	1	1.07	0.72	1.30
C11, C12	Fibulin 3	1	1.11	0.86	1.24
C13, C14	Flt-3 Ligand	1	1.07	1.02	1.02
C15, C16	Galectin-1	1	1.06	0.91	0.88
C17, C18	Galectin-3	1	1.25	1.02	1.16
C19, C20	G-CSF	1	1.07	1.10	1.38
C21, C22	GDF-15	1	0.87	0.91	1.03
D1, D2	GM-CSF	1	0.77	0.74	1.02
D3, D4	Hepassocin	1	0.73	0.95	1.31
D5, D6	HGF	1	0.59	0.81	1.06
D7, D8	ICAM-1/CD54	1	0.76	1.06	1.67
D9, D10	IFN- γ	1	1.18	0.89	1.29
D11, D12	IGF-I	1	0.64	1.24	1.47
D13, D14	IGFBP-2	1	1.18	1.22	1.74
D15, D16	IGFBP-3	1	0.85	1.14	1.43
D17, D18	IGFBP-5	1	1.17	1.36	1.40
D19, D20	IGFBP-6	1	1.19	1.22	1.49
D21, D22	IL-1 α /IL-1F1	1	0.69	0.93	0.91
D23, D24	IL-1 β /IL-1F2	1	1.03	1.63	1.50
E1, E2	IL-1ra/IL-1F3	1	0.99	0.85	1.18
E3, E4	IL-2	1	0.73	0.66	1.25
E5, E6	IL-3	1	0.76	0.70	1.11
E7, E8	IL-4	1	0.95	0.95	1.35
E9, E10	IL-6	1	1.27	0.96	1.34
E11, E12	IL-13	1	1.36	0.99	1.89
E13, E14	IL-17A	1	1.15	1.15	1.22

E15, E16	IL-22	1	0.99	1.18	1.78
E17, E18	Jagged 1	1	1.14	1.23	1.50
E19, E20	LIF	1	0.93	1.00	1.17
E21, E22	Lipocalin-2/NGAL	1	0.66	1.08	1.28
E23, E24	LIX	1	1.12	1.25	1.45
F1, F2	MAG/Siglec-4a	1	1.03	0.84	1.22
F3, F4	MMP-2	1	1.01	0.92	1.48
F5, F6	MMP-3	1	1.28	1.16	1.72
F7, F8	MMP-9	1	1.24	0.85	1.94
F9, F10	Neprilysin/CD10	1	1.32	1.00	1.35
F11, F12	NOV/CCN3	1	1.01	1.08	1.37
F13, F14	NT-3	1	1.03	1.07	1.38
F15, F16	NT-4	1	0.85	0.92	1.34
F17, F18	Osteopontin (OPN)	1	1.00	0.77	1.04
F19, F20	Osteoprotegerin/TNFRSF11B	1	1.02	1.03	0.85
F21, F22	PDGF-BB	1	0.76	1.02	0.98
F23, F24	Pref-1/DLK1/FA1	1	1.09	1.51	1.69
G1, G2	Prolactin	1	0.80	0.92	1.54
G3, G4	RAGE	1	1.00	0.87	1.28
G5, G6	RBP4	1	1.04	1.02	1.38
G7, G8	Resistin	1	1.26	1.08	2.02
G9, G10	RGM-A	1	1.56	1.27	1.57
G11, G12	SCF	1	1.32	1.11	1.48
G13, G14	Serpin E1/PAI-1	1	1.19	1.01	1.56
G15, G16	TIM-1/KIM-1/HAVCR	1	1.06	0.97	1.41
G17, G18	TNF- α	1	0.90	1.03	1.53
G19, G20	TWEAK/TNFSF12	1	0.98	1.01	1.08
G21, G22	VCAM-1/CD106	1	0.74	0.92	1.37
G23, G24	VEGF	1	0.73	1.34	1.35
H5, H6	WISP-1/CCN4	1	1.35	1.26	2.08