

Supplemental Table 6. Comparison of cytokine levels in sera 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=7 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	1.15	0.98	1.19
A5, A6	CCL2/JE/MCP-1	1	1.05	0.68	1.27
A7, A8	CCL3/CCL4/MIP-1 α / β	1	1.01	0.46	0.69
A9, A10	CCL5/RANTES	1	2.07	1.02	1.38
A11, A12	CCL11/Eotaxin	1	2.15	1.27	1.40
A13, A14	CCL17/TARC	1	0.92	0.54	1.14
A15, A16	CCL20/MIP-3 α	1	0.74	0.63	0.87
A17, A18	CCL21/6Ckine	1	1.03	0.41	0.90
A19, A20	CCL22/MDC	1	0.92	0.41	0.84
A21, A22	Clusterin	1	0.93	0.78	0.98
B3, B4	CNTF	1	1.68	0.75	0.99
B5, B6	CX3CL1/Fractalkine	1	1.79	0.70	1.00
B7, B8	CXCL2/GRO β /MIP-2/CINC-3	1	1.34	0.33	0.71
B9, B10	CXCL7/Thymus Chemokine-1	1	1.43	0.73	0.98
B11, B12	Cyr61/CCN1	1	2.56	1.17	1.37
B13, B14	Cystatin C	1	0.90	0.66	0.92
B15, B16	DPPIV/CD26	1	0.85	0.62	0.89
B17, B18	EGF	1	1.09	0.93	1.72
B19, B20	EG-VEGF/PK1	1	1.07	0.59	0.96
B21, B22	Endostatin	1	0.88	0.91	1.08
C3, C4	Fetuin A/AHSG	1	1.24	1.20	1.13
C5, C6	FGF acidic	1	1.96	1.06	2.12
C7, C8	FGF-7/KGF	1	0.94	0.36	0.75
C9, C10	FGF-21	1	1.24	0.53	0.72
C11, C12	Fibulin 3	1	1.40	0.63	0.92
C13, C14	Flt-3 Ligand	1	0.85	0.70	0.91
C15, C16	Galectin-1	1	1.21	0.94	2.49
C17, C18	Galectin-3	1	1.64	0.71	1.87
C19, C20	G-CSF	1	1.66	0.61	1.19
C21, C22	GDF-15	1	0.95	0.84	0.79
D1, D2	GM-CSF	1	0.95	0.83	0.83
D3, D4	Hepassocin	1	1.04	0.75	0.98
D5, D6	HGF	1	1.40	0.76	1.05
D7, D8	ICAM-1/CD54	1	1.19	0.57	0.92
D9, D10	IFN- γ	1	0.83	0.52	0.78
D11, D12	IGF-I	1	1.08	0.82	1.20
D13, D14	IGFBP-2	1	1.26	0.83	0.94
D15, D16	IGFBP-3	1	1.32	1.02	1.07
D17, D18	IGFBP-5	1	0.56	0.56	1.10
D19, D20	IGFBP-6	1	0.66	0.65	1.11
D21, D22	IL-1 α /IL-1F1	1	1.13	0.83	1.02
D23, D24	IL-1 β /IL-1F2	1	1.12	0.86	0.98
E1, E2	IL-1 α /IL-1F3	1	1.53	1.23	1.14
E3, E4	IL-2	1	1.26	0.77	0.78
E5, E6	IL-3	1	1.01	0.46	0.68
E7, E8	IL-4	1	1.10	0.71	0.74
E9, E10	IL-6	1	1.29	1.00	1.24
E11, E12	IL-13	1	1.58	0.70	1.82
E13, E14	IL-17A	1	1.41	0.76	1.01

E15, E16	IL-22	1	1.46	1.02	1.20
E17, E18	Jagged 1	1	0.68	0.64	1.09
E19, E20	LIF	1	0.72	0.55	0.82
E21, E22	Lipocalin-2/NGAL	1	0.87	0.84	1.04
E23, E24	LIX	1	1.21	1.06	1.22
F1, F2	MAG/Siglec-4a	1	0.77	0.64	0.69
F3, F4	MMP-2	1	1.04	0.87	0.97
F5, F6	MMP-3	1	1.39	0.70	0.87
F7, F8	MMP-9	1	0.73	0.51	0.93
F9, F10	Neprilysin/CD10	1	0.87	0.53	0.96
F11, F12	NOV/CCN3	1	1.07	0.83	1.17
F13, F14	NT-3	1	1.43	1.17	1.05
F15, F16	NT-4	1	1.52	1.02	1.13
F17, F18	Osteopontin (OPN)	1	0.68	0.63	1.14
F19, F20	Osteoprotegerin/TNFRSF11B	1	0.88	0.68	1.15
F21, F22	PDGF-BB	1	1.24	0.79	1.95
F23, F24	Pref-1/DLK1/FA1	1	0.92	0.85	0.99
G1, G2	Prolactin	1	0.87	0.91	0.50
G3, G4	RAGE	1	0.86	0.56	1.16
G5, G6	RBP4	1	1.04	0.87	1.19
G7, G8	Resistin	1	0.92	0.78	1.10
G9, G10	RGM-A	1	1.53	0.71	1.15
G11, G12	SCF	1	1.17	0.67	1.20
G13, G14	Serpin E1/PAI-1	1	1.63	1.10	1.21
G15, G16	TIM-1/KIM-1/HAVCR	1	1.35	1.21	1.20
G17, G18	TNF- α	1	0.73	0.59	1.06
G19, G20	TWEAK/TNFSF12	1	0.81	0.67	1.23
G21, G22	VCAM-1/CD106	1	0.94	0.80	1.03
G23, G24	VEGF	1	0.87	0.80	0.84
H5, H6	WISP-1/CCN4	1	0.76	0.69	0.78