

Table 1. Effects of HP protocol on Chemokine Genes in BMSCs (fold alterations vs. normoxic control BMSCs)

Gene	Hypoxia (24 hr)	Hypoxia (24hr) + Reoxygenation (24 hr)
Complement C5	-55.6851	-52.4278
Ccl12 (predicted)	-2.0477	-2.7585
Ccl17	-86.1345	-81.0961
Ccl2	-2.0821	1.5428
Ccl24	-2.6205	-2.4672
Ccl3	-2.3313	-274.309
Ccl4	-1.0053	-118.288
Ccl5	-1.2297	-119.889
Ccl6	2.9003	3.4695
Ccl7	-1.4511	1.6348
Ccl9	1.0355	-70.2809
Cx3cl1	-78.12	-73.5503
Cx3cr1	-1.5625	-136.481
Cxcl1	-3.5569	-1.0747
Cxcl10	-143.6108	-135.21
Cxcl11	-2.6205	-2.4672
Cxcl12	-7.6604	-4.7901
Cxcl2	-2.6205	-2.4672
Cxcl5	-2.6205	-2.4672
Cxcl9	-2.6205	-2.4672
Il13	-2.6205	-2.4672
Cxcl4	-1.2386	1.3421

Footnote for Table 1 – 5: HP protocol: 0.5% O₂. N=2-3 measurements.

**Table 2. Effects of HP on Cytokine Genes in BMSCs
(fold alterations vs. normoxic control BMSCs)**

Gene	Hypoxia (24 hr)	Hypoxia (24hr) + Reoxygenation (24 hr)
Ifng	-2.6205	-2.4672
Il10	-2.6205	-2.4672
Il11	-1.2357	1.1881
Il13	-2.6205	-2.4672
Il15	-2.7553	-1.3716
Il16	-1.2742	-77.8897
Il17b	58.7461	-55.3097
Il18	-1.6775	1.1686
Il1a	43.4661	-40.9236
Il1b	2.6348	-50.8283
Il3	-2.6205	-2.4672
Il4	-2.6205	-2.4672
Itgam (OX42)	43.2635	-2.4672
Itgb2	1.4266	1.9532
Lta	11.8653	-2.4672
Ltb	90.8063	-85.4945
Mif	2.7725	-1.061
Scye1	-1.9464	-1.2234
Spp1	-1.4024	-1.3174
Tgfb1	-1.8693	-1.4369
Tnf	-2.6205	-2.4672

**Table 3. Effects of HP on Chemokine Receptors in BMSCs
(fold alterations vs. normoxic control BMSCs)**

Gene	Hypoxia (24 hr)	Hypoxia (24hr) + Reoxygenation (24 hr)
Ccr1	2.0573	4.134
Ccr2	-2.6205	-2.4672
Ccr3	-2.6205	-2.4672
Ccr4	-2.6205	-2.4672
Ccr5	1.0827	2.4028
Ccr6	-2.6205	-2.4672
Ccr9	-2.6205	-2.4672
Cx3cr1	-1.5625	-136.481
Cxcr3	-79.8223	-75.1531
Ccr10 (GRP2)	-1.9505	1.7484
Il8ra	-2.6205	-2.4672
Il8rb	-2.6205	-2.4672

Table 4. Effects of HP on Cytokine Receptors in BMSCs (fold alterations vs. normoxic control BMSCs)

Gene	Hypoxia (24 hr)	Hypoxia (24hr) + Reoxygenation (24 hr)
Il10ra	-2.6205	-2.4672
Il13ra1	-3.7483	-2.5841
Il1r1	-1.1711	-1.0348
Il1r2	1.4078	1.8353
Il2rb	-46.6085	-43.8821
Il2rg	-2.1442	-1.642
Il5ra	-2.6205	-2.4672
Il6ra	-2.3171	1.0711
Il6st	-1.5086	-1.0064
Tnfrsf1a	-1.654	1.0704
Tnfrsf1b	-1.5747	1.0298

Table 5. Effects of HP on Other Inflammatory Genes in BMSCs (fold alterations vs. normoxic control BMSCs)

Gene	Hypoxia (24 hr)	Hypoxia (24hr) + Reoxygenation (24 hr)
Abcf1	-12.8493	-4.7607
Bcl6_predicted	1.8998	1.8997
Blr1	-1.2496	-84.376
Complement C3	-139.664	-131.495
Casp1	-2.8529	-3.2386
Crp	-2.6205	-2.4672
Tollip_predicted	-1.6281	-1.675