

	MPS					2D
	Control	Mix 48h	Embedded PBMCs	Luminal PBMCs	Luminal Act PBMCs	Control 2D
<b>FGF-2</b>	389.99	846.60	787.57	1398.40	781.16	0.00
<b>PDGF-AA</b>	582.15	568.73	716.56	1201.82	1296.75	1156.62
<b>PDGF-AB</b>	4562.75	12902.73	6745.12	3343.60	4694.35	1232.47
<b>G-CSF</b>	153.43	8025.27	5514.20	8227.04	5392.07	116.37
<b>GM-CSF</b>	19.76	2414.42	573.25	1473.37	1941.74	2.81
<b>CXCL1</b>	11129.86	11188.95	10898.40	6638.38	10639.63	6602.65
<b>CXCL10</b>	103.23	12376.98	211.06	369.54	3970.14	60.62
<b>CX3CL1</b>	43.60	1389.57	65.39	73.94	185.67	35.65
<b>CCL2</b>	9342.40	8794.89	9972.42	13872.36	9508.84	5076.56
<b>CCL3</b>	1.37	3.32	6.94	353.36	775.90	0.36
<b>CCL4</b>	1.22	2.23	3.47	310.71	404.90	0.80
<b>CCL5</b>	20.80	3254.19	89.73	273.67	3019.76	10.30
<b>CCL7</b>	104.86	695.57	122.95	146.91	513.71	35.70
<b>CCL22</b>	8.18	12.72	13.31	20.44	50.61	6.56
<b>TNF<math>\alpha</math></b>	4.29	8853.45	9.57	31.47	117.68	1.19
<b>IFN<math>\alpha</math>2</b>	40.48	50.35	58.45	81.42	41.87	36.36
<b>IFN<math>\gamma</math></b>	1.39	1.69	1.83	3.05	83.38	1.19
<b>IL-1RA</b>	9.00	12.82	12.99	26.43	30.42	7.20
<b>IL-1a</b>	8.23	14.80	10.82	25.36	78.02	4.75
<b>IL-1<math>\beta</math></b>	0.25	0.95	2.55	87.15	1563.65	0.19
<b>IL-2</b>	0.58	1.16	1.03	0.92	30.79	0.37
<b>IL-4</b>	20.91	34.29	24.20	35.43	21.97	13.48
<b>IL-6</b>	71.32	4276.20	925.45	2857.18	1628.46	143.60
<b>IL-10</b>	2.42	3.10	3.92	34.99	94.39	1.96

Supplementary Table 1 – Multiplexed analysis of secretion media from vascular MPS and 2D cultures.

Concentrations of different factors are listed in ng/ml.

Fold difference	MPS					Control 2D vs 3D
	Mix 48h vs Control	Embedded PBMCs vs Control	Luminal PBMCs vs Control	Luminal Act PBMCs vs Control	Luminal Act PBMCs vs Luminal PBMCs	
<b>FGF-2</b>	2.17	2.02	3.59	2.00	0.56	0.00
<b>PDGF-AA</b>	0.98	1.23	2.06	2.23	1.08	1.99
<b>PDGF-AB</b>	2.83	1.48	0.73	1.03	1.40	0.27
<b>G-CSF</b>	52.31	35.94	53.62	35.14	0.66	0.76
<b>GM-CSF</b>	122.18	29.01	74.56	98.26	1.32	0.14
<b>CXCL1</b>	1.01	0.98	0.60	0.96	1.60	0.59
<b>CXCL10</b>	119.90	2.04	3.58	38.46	10.74	0.59
<b>CX3CL1</b>	31.87	1.50	1.70	4.26	2.51	0.82
<b>CCL2</b>	0.94	1.07	1.48	1.02	0.69	0.54
<b>CCL3</b>	2.42	5.07	258.11	566.75	2.20	0.26
<b>CCL4</b>	1.83	2.84	254.61	331.80	1.30	0.65
<b>CCL5</b>	156.44	4.31	13.16	145.17	11.03	0.50
<b>CCL7</b>	6.63	1.17	1.40	4.90	3.50	0.34
<b>CCL22</b>	1.56	1.63	2.50	6.19	2.48	0.80
<b>TNF<math>\alpha</math></b>	2066.03	2.23	7.34	27.46	3.74	0.28
<b>IFN<math>\alpha</math>2</b>	1.24	1.44	2.01	1.03	0.51	0.90
<b>IFN<math>\gamma</math></b>	1.22	1.32	2.20	60.11	27.32	0.86
<b>IL-1RA</b>	1.42	1.44	2.94	3.38	1.15	0.80
<b>IL-1a</b>	1.80	1.32	3.08	9.48	3.08	0.58
<b>IL-1<math>\beta</math></b>	3.80	10.15	347.13	6228.13	17.94	0.76
<b>IL-2</b>	2.00	1.76	1.58	52.82	33.40	0.64
<b>IL-4</b>	1.64	1.16	1.69	1.05	0.62	0.64
<b>IL-6</b>	59.95	12.98	40.06	22.83	0.57	2.01
<b>IL-10</b>	1.28	1.62	14.47	39.03	2.70	0.81

Supplementary Table 2 – Fold differences in concentration of secretion media from vascular MPS and 2D cultures.