

Supplemental Table 1. - Cytokine from fresh and cryopreserved PBMC.

Stimulant	Cytokine	Day	N	Fresh	Geometric mean	Fresh	N	Nalgene	Geometric mean	Fresh	N	Nalgene	p-value for the ratio of	
													Geometric mean	correlation
MEDIUM	IFN	1	16	7.4	10	16.3	0.304	10	3.1	0.072				
		2	20	6.5	20	12.4	0.288	15	3.3	0.243				
		3	16	11.3	10	33.7	0.153	11	3.8	0.11	$\rho=0.08$ (0.18,0.33)			
	TNF	1	16	12.8	10	18.9	0.484	10	22.0	0.317				
		2	20	4.6	21	28.0	<0.001	15	22.0	<0.001				
		3	16	4.6	10	33.1	<0.001	11	6.2	0.226	$\rho=0.370$ (0.13,0.57)			
	IL-10	1	16	9.9	10	6.8	0.438	10	2.6	0.001				
		2	20	6.1	21	7.8	0.233	15	3.0	0.13				
		3	16	4.2	9	4.4	0.904	ND	11	2.6	0.251			
	IL-5	1	16	1.9	10	2.7	0.43	10	1.8	0.815				
		2	20	1.7	21	2.4	0.299	15	2.0	0.885				
		3	16	2.3	10	3.8	0.021	11	2.0	0.777				
	IL-4	1	16	2.3	10	2.5	0.757	10	1.9	0.525				
		2	20	2.6	21	1.6	0.077	15	2.3	0.734				
		3	16	2.7	10	2.7	0.997	ND	11	2.7	0.961			
IL-2	1	16	6.2	10	7.9	0.399	10	3.3	0.288					
	2	20	6.4	21	6.2	0.947	15	4.6	0.349					
	3	16	11.4	10	12.8	0.812	ND	11	4.3	0.02				
PHA	IFN	1	11	253.7	5	15.8	0.007	4	3132.0	0.01				
		2	12	3051.4	14	2757.0	0.894	$\rho=0.67$ (0.02,0.92)	6	12690.2	0.092	$\rho=0.43$ (0.23,0.82)		
		3	10	2292.3	5	31.9	<0.001	$\text{CC}=\text{0.40}$ (0.03,0.67)	5	19433.9	0.022	$\text{CC}=\text{0.35}$ (0.16,0.72)		
	TNF	1	8	3874.7	5	26.4	<0.001	$\rho=0.81$ (0.01,0.88)	4	3009.9	0.758	$\rho=0.57$ (0.85,-0.06)		
		2	13	2566.4	14	483.4	0.003	$\text{CC}=\text{0.19}$ (0.02,0.29)	8	2919.9	0.826	$\rho=0.53$ (0.81,-0.06)		
		3	12	628.1	5	16.8	<0.001		7	5159.9	0.004			
	IL-10	1	16	582.1	10	81.8	<0.001	$\rho=0.59$ (0.34,0.76)	10	136.6	<0.001	$\rho=0.10$ (0.24,0.41)		
		2	20	1200.6	21	249.9	<0.001		15	369.6	<0.001	$\text{CC}=\text{0.06}$ (0.15,0.27)		
		3	16	682.1	10	144.4	0.004	$\text{CC}=\text{0.19}$ (0.05,0.28)	11	235.3	0.024			
	IL-5	1	16	8.7	10	11.0	0.604	10	35.9	<0.001				
		2	20	37.0	21	111.7	<0.001	$\rho=0.14$ (0.18,0.43)	15	178.1	<0.001	$\rho=0.31$ (0.02,0.58)		
		3	16	35.1	10	45.7	0.553	$\text{CC}=\text{0.11}$ (0.15,0.36)	11	161.0	<0.001	$\text{CC}=\text{0.24}$ (0.02,0.47)		
	IL-4	1	16	13.9	10	13.0	0.85	10	28.6	0.005				
		2	20	26.1	21	37.4	0.163	$\rho=0.55$ (0.73,-0.29)	15	33.1	0.29	$\rho=0.10$ (0.23,0.42)		
		3	16	12.3	10	16.9	0.353	$\text{CC}=\text{0.52}$ (0.71,-0.27)	11	22.8	0.015	$\text{CC}=\text{0.09}$ (0.21,0.38)		
IL-2	1	16	53.5	10	144.3	0.048	10	1168.6	<0.001					
	2	20	79.8	21	454.4	<0.001	$\rho=0.69$ (0.83,-0.49)	15	949.2	<0.001	$\rho=0.20$ (0.14,0.50)			
	3	16	59.2	10	241.2	0.005	$\text{CC}=\text{0.59}$ (0.73,-0.31)	11	738.1	<0.001	$\text{CC}=\text{0.11}$ (0.07,0.29)			
LPS10	IFN	1	5	14.8	5	672.0	0.003	0						
		2	10	727.9	5	1685.2	0.701	$\rho=0.51$ (0.03,0.82)	6	3821.1	0.08	$\rho=0.970$ (0.86,0.99)		
		3	9	257.2	7	3824.7	0.005	$\text{CC}=\text{0.02}$ (0.005,0.04)	6	1987.1	0.026	$\text{CC}=\text{0.76}$ (0.65,0.84)		
	TNF	1	5	166.3	3	9390.9	<0.001		4	3405.5	0.001			
		2	10	4026.3	5	4422.7	0.903	INS	7	1830.0	0.24	$\rho=0.11$ (0.60,0.72)		
		3	9	931.2	5	2831.5	0.157		7	2711.2	0.124	$\text{CC}=\text{0.05}$ (0.27,0.35)		
	IL-10	1	16	259.3	10	522.6	0.143		10	72.5	0.002			
		2	20	986.1	16	541.8	0.124	$\rho=0.24$ (0.10,0.33)	10	83.4	<0.001	$\rho=0.24$ (0.12,0.35)		
		3	16	645.4	10	702.2	0.852	$\text{CC}=\text{0.29}$ (0.10,0.52)	12	100.8	<0.001	$\text{CC}=\text{0.07}$ (0.04,0.18)		
	IL-5	1	16	1.8	10	3.2	0.199	10	1.8	0.847				
		2	20	2.0	16	3.3	0.176	ND	10	2.2	0.808			
		3	16	2.4	10	6.4	0.026		12	2.3	0.872			
	IL-4	1	16	2.7	10	3.3	0.545	10	2.3	0.554				
		2	20	2.4	16	1.6	0.181	ND	10	2.1	0.654			
		3	16	3.0	10	4.6	0.406		12	2.3	0.299			
IL-2	1	16	4.9	10	8.5	0.27	10	3.4	0.385					
	2	20	3.7	16	7.4	0.091	ND	10	4.6	0.378				
	3	16	6.3	10	26.5	0.004		12	3.7	0.203				
LPS100	IFN	1	5	70.2	5	592.5	0.078	0						
		2	12	1283.7	10	4517.0	0.126	$\rho=0.63$ (0.20,0.86)	6	4803.8	0.119	$\rho=0.99$ (0.94,1.00)		
		3	9	376.3	6	2821.1	0.046	$\text{CC}=\text{0.24}$ (0.04,0.43)	6	2105.5	0.058	$\text{CC}=\text{0.82}$ (0.75,0.86)		
	TNF	1	5	2096.1	1	11504.7	0.249		2	5471.9	0.386			
		2	10	4644.1	9	33250.9	0.822	INS	6	3222.2	0.575	$\rho=0.32$ (0.79,0.39)		
		3	10	1882.1	5	5430.8	0.167		6	3686.6	0.334	$\text{CC}=\text{0.19}$ (0.53,0.20)		
	IL-10	1	16	610.2	10	718.0	0.734		10	123.2	<0.001			
		2	19	1121.9	15	388.4	0.008	$\rho=0.29$ (0.06,0.58)	15	203.6	<0.001	$\rho=0.11$ (0.23,0.42)		
		3	16	802.6	10	1032.1	0.599	$\text{CC}=\text{0.14}$ (0.10,0.37)	12	173.2	<0.001	$\text{CC}=\text{0.04}$ (0.03,0.15)		
	IL-5	1	16	2.5	10	3.9	0.286	10	1.8	0.421				
		2	19	2.0	15	3.8	0.096	ND	15	2.1	0.764			
		3	16	2.2	10	8.3	0.047		12	2.1	0.875			
	IL-4	1	16	3.4	10	2.8	0.618	10	2.3	0.149				
		2	19	2.5	15	2.9	0.588	ND	15	2.5	0.97			
		3	16	3.1	10	2.9	0.842		12	2.0	0.082			
IL-2	1	16	7.7	10	8.6	0.826	10	3.3	0.049					
	2	19	3.9	15	9.7	0.036	ND	15	4.1	0.809				
	3	16	6.2	10	20.8	0.016		12	4.2	0.334				
BLA2	IFN	3	15	79.7	10	1218.7	<0.001		11	67.8	0.815			
		5	21	229.8	16	211.1	0.893	$\rho=0.04$ (0.37,0.30)	19	179.7	0.667	$\rho=0.07$ (0.36,0.24)		
		7	14	206.3	10	162.2	0.378	$\text{CC}=\text{0.04}$ (0.36,0.29)	19	112.5	0.343	$\text{CC}=\text{0.06}$ (0.33,0.22)		
	TNF	3	14	389.3	4	2142.3	0.027		10	1685.3	0.01			
		5	18	218.4	13	339.7	0.39	$\rho=0.54$ (0.15,0.79)	16	1161.9	<0.001	$\rho=0.17$ (0.17,0.48)		
		7	13	174.4	8	290.5	0.419	$\text{CC}=\text{0.54}$ (0.16,0.76)	18	547.9	0.027			
	IL-10	3	16	968.1	10	643.2	0.795		12	120.0	<0.001			
		5	21	219.6	17	68.2	<0.001	$\rho=0.31$ (0.02,0.57)	20	82.7	0.002	$\rho=0.07$ (0.35,0.22)		
		7	15	130.5	11	24.8	<0.001	$\text{CC}=\text{0.15}$ (0.01,0.30)	20	41.3	<0.001	$\text{CC}=\text{0.13}$ (0.13,0.38)		
	IL-5	3	16	3.1	10	7.3	0.05		12	3.4	0.731			
		5	21	6.1	17	5.9	0.933	ND	20	6.0	0.954			
		7	15	7.3	11	7.4	0.982		20	16.4	0.246			
	IL-4	3	16	3.0	10	5.1	0.139		12	2.9	0.841			
		5	21	2.9	17	1.7	0.053	ND	20	2.6	0.593			
		7	15	2.7	11	1.6	0.104		20	3.4	0.364			
IL-2	3	16	8.4	10	26.4	0.022		12	4.5	0.13				
	5	21	13.4	17	7.9	0.191	$\rho=0.17$ (0.46,0.16)	20	7.1	0.066				
	7	15	12.5	11	6.2	0.074	$\text{CC}=\text{0.16}$ (0.44,0.15)	20	11.2	0.779				
DERF1	IFN	3	16	9.8	10	28.9	0.16		12	4.5	0.242			
		5	21	16.8	16	18.3	0.899		20	23.3	0.8			
		7	13	38.6	10	21.9	0.48	$\text{CC}=\text{0.40}$ (0.09,0.63)	20	12.7	0.086	$\rho=0.430$ (0.16,0.65		