## Table S1 (a). Assay Performance Measures. Calibration standard sample

concentrations used and the corresponding mean estimated concentration (pg/ml) based

on duplicate measurements for each cytokine.

	IL-1a			IL-1b	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml) *	**	Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	6500.00	6590.30		15000.00	14976.22
1:3	2166.67	2147.75		5000.00	5063.16
1:9	722.22	737.18		1666.67	1655.59
1:27	240.74	238.99		555.56	569.90
1:81	80.25	74.37		185.19	175.33
1:243	26.75	17.88		61.73	51.34
1:729	8.92	20.74		20.58	26.94
	IL-2			IL-4	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml)		Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	2700.00	2742.60		2000.00	2010.02
1:3	900.00	921.40		666.67	674.19
1:9	300.00	300.30		222.22	218.46
1:27	100.00	99.86		74.07	77.40
1:81	33.33	33.66		24.69	24.02
1:243	11.11	10.54		8.23	6.86
1:729	3.70	4.13		2.74	2.06
	IL-5			IL-6	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml)		Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	1700.00	1716.81		2500.00	2422.94
1:3	566.67	567.52		833.33	835.02
1:9	188.89	189.14		277.78	277.87
1:27	62.96	62.59		92.59	92.36
1:81	20.99	21.45		30.86	31.50
1:243	7.00	7.42		10.29	9.61
1:729	2.33	1.20		3.43	3.27
	IL-8			IL-10	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml)		Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	1000.00	1014.66		1200.00	1195.97
1:3	333.33	340.79		400.00	402.59
1:9	111.11	108.76		133.33	130.72
1:27	37.04	38.75		44.44	49.55
1:81	12.35	12.03		14.81	8.52
1:243	4.12	3.48		4.94	3.68
1:729	1.37	1.21		1.65	3.42

\*\* Average of 2 duplicate samples.

## Table S1 (b). Assay Performance Measures (cont'd). Calibration standard sample

concentrations used and the corresponding mean estimated concentration (pg/ml) based

on duplicate measurements for each cytokine (cont'd).

	IL-12			IL-13	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml) *	*	Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	5000.00	5135.38		2500.00	2541.28
1:3	1666.67	1679.74		833.33	834.09
1:9	555.56	551.65		277.78	277.82
1:27	185.19	191.67		92.59	92.79
1:81	61.73	57.04		30.86	31.44
1:243	20.58	17.72		10.29	8.78
1:729	6.86	8.00		3.43	3.43
	IL-15			IL-17	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml)		Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	4000.00	4003.80		2000.00	1978.70
1:3	1333.33	1340.39		666.67	688.26
1:9	444.44	447.34		222.22	223.15
1:27	148.15	144.33		74.07	74.42
1:81	49.38	55.05		24.69	23.15
1:243	16.46	21.86		8.23	9.85
1:729	5.49	2.47		2.74	0.62
	IL-23			IFNg	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml)		Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	80000.00	80078.43		600.00	599.75
1:3	26666.67	26658.14		200.00	200.30
1:9	8888.89	8915.54		66.67	66.48
1:27	2962.96	3036.90		22.22	22.45
1:81	987.65	646.82		7.41	7.25
1:243	329.22	39.37		2.47	2.30
1:729	109.74	804.57		0.82	0.74
	TNFa			TNFb	
Dilution	Conc. (pg/ml)	Estimated Conc.(pg/ml)		Conc. (pg/ml)	Estimated Conc.(pg/ml)
1:1	2300.00	2343.72		6000.00	6018.64
1:3	766.67	767.48		2000.00	1991.79
1:9	255.56	255.89		666.67	673.29
1:27	85.19	84.31		222.22	219.33
1:81	28.40	29.71		74.07	71.23
1:243	9.47	10.09		24.69	20.96
1:729	3.16	1.79		8.23	10.56

\*\* Average of 2 duplicate samples.

**Table S2**. Analysis of Variance. Significance of subject-to-subject changes in cytokineexpression when compared with replicate error based on parametric a one-way ANOVA(ANOVA-1) and the non-parametric Kruskal-Wallis test.

		p ANOVA-1		p Kruskal-Wallis	
		PI-CFS (Log)	Recovering Ctrl (Log)	PI-CFS	Recovering Control
IL-1a	(pg/ml)	0.305	0.123	0.299	0.099
IL-1b	(pg/ml)	0.001	0.000	0.100	0.040
IL-2	(pg/ml)	0.064	0.015	0.071	0.106
IL-4	(pg/ml)	0.104	0.002	0.173	0.235
IL-5	(pg/ml)	0.000	0.041	0.081	0.119
IL-6	(pg/ml)	0.000	0.000	0.036	0.038
IL-8	(pg/ml)	0.000	0.000	0.035	0.030
IL-10	(pg/ml)	0.355	0.081	0.381	0.069
IL-12p70	(pg/ml)	0.023	0.079	0.099	0.160
IL-13	(pg/ml)	0.038	0.358	0.105	0.356
IL-15	(pg/ml)	0.000	0.000	0.056	0.026
IL-17	(pg/ml)	0.217	0.194	0.226	0.378
IL-23	(pg/ml)	0.000	0.000	0.039	0.021
IFN-g	(pg/ml)	0.018	0.000	0.145	0.047
TNFa	(pg/ml)	0.003	0.000	0.135	0.103
TNFb	(pg/ml)	0.203	0.000	0.181	0.312

**Table S3**. **Overview of Results**. Summary statistics and statistical significance of the change in Chalder fatigue score and in the expression in 16 cytokines measured in plasma for the PI-CFS group compared to control subjects.

		PI-CFS		Recovering Ctrl		PI-CFS vs Ct	:rl
		Mean (Std. Dev.)	Median (MADM)	Mean (Std. Dev.)	Median (MADM)	t test	Wilcoxon
Chalder F	atigue Score	18.33 (5.04)	17.00 (3.00)	11.00 (3.66)	11.00 (0.50)	<u>0.000</u>	<u>0.000</u>
						* t test Log(x	)
IL-1a	(pg/ml)	23.04 (59.95)	5.43 (2.76)	5.82 (4.23)	4.36 (2.91)	0.439	0.657
IL-1b	(pg/ml)	31.11 (22.03)	22.76 (3.80)	50.56 (64.31)	23.25 (9.99)	0.788	0.684
<u>IL-2</u>	(pg/ml)	26.22 (29.65)	13.29 (13.29)	5.98 (10.55)	1.50 (0.53)	<u>0.002</u>	0.073
IL-4	(pg/ml)	2.16 (0.45)	2.31 (0.28)	2.57 (2.16)	1.96 (0.52)	0.921	0.423
<u>IL-5</u>	(pg/ml)	6.90 (4.83)	4.66 (0.46)	7.88 (2.79)	7.80 (2.03)	0.110	<u>0.026</u>
IL-6	(pg/ml)	34.51 (45.05)	4.46 (3.63)	10.72 (15.91)	2.81 (1.93)	0.153	0.280
<u>IL-8</u>	(pg/ml)	177.09 (173.55)	54.64 (47.21)	37.61 (92.38)	4.52 (2.32)	<u>0.000</u>	<u>0.000</u>
IL-10	(pg/ml)	23.67 (17.69)	16.70 (6.59)	19.03 (17.07)	13.04 (3.85)	0.330	0.395
IL-12p70	(pg/ml)	18.91 (29.46)	6.29 (3.65)	16.54 (21.24)	7.27 (4.76)	0.938	0.949
IL-13	(pg/ml)	3.94 (2.70)	3.23 (1.05)	2.65 (1.24)	2.43 (0.54)	0.073	0.071
IL-15	(pg/ml)	34.92 (24.00)	32.72 (20.17)	23.23 (17.88)	15.64 (6.89)	0.096	0.118
IL-17	(pg/ml)	3.93 (5.21)	2.16 (1.49)	1.73 (2.03)	1.00 (1.00)	0.455	0.121
<u>IL-23</u>	(pg/ml)	19798.00 (33373.00)	542.12 (385.45)	14077.00 (13724.00)	5329.60 (3731.60)	<u>0.012</u>	<u>0.030</u>
IFN-g	(pg/ml)	1.60 (0.83)	1.28 (0.16)	2.25 (2.18)	1.51 (0.38)	0.338	0.423
TNFa	(pg/ml)	16.99 (21.15)	8.70 (4.18)	15.10 (15.40)	8.45 (2.52)	0.923	0.770
TNFb	(pg/ml)	3.50 (2.90)	3.09 (2.11)	11.42 (25.88)	3.39 (3.39)	0.335	0.769

Table S4. Cytokine-cytokine Correlation Structure. Pearson correlation coefficient r and associated null probability (p-value) for

co-expression patterns existing between cytokines in the PI-CFS patient group and in the group of recovering control subjects.

Correlation co	oefficients wi	th p-value for	r log transfor	med concnetr	ations in all F	I-CFS groups	3									
	IL-1a	IL-1b	IL-2	IL-4	IL-5	IL-6	IL-8	IL-10	IL-12p70	IL-13	IL-15	IL-17	IL-23	IFN-g	TNFa	TNFb
IL-1a	1.00 (0.00)	0.45 (0.06)	0.17 (0.51)	0.40 (0.10)	0.43 (0.07)	-0.16 (0.51)	-0.27 (0.28)	0.27 (0.28)	0.54 (0.02)	0.50 (0.04)	0.34 (0.17)	0.23 (0.36)	0.34 (0.17)	0.10 (0.68)	0.28 (0.27)	0.30 (0.23)
IL-1b	0.45 (0.06)	1.00 (0.00)	0.62 (0.01)	0.55 (0.02)	0.65 (0.00)	-0.05 (0.85)	-0.23 (0.35)	0.44 (0.07)	0.61 (0.01)	0.48 (0.04)	0.52 (0.03)	0.53 (0.02)	0.30 (0.22)	0.21 (0.41)	0.54 (0.02)	0.65 (0.00)
IL-2	0.17 (0.51)	0.62 (0.01)	1.00 (0.00)	0.58 (0.01)	0.37 (0.13)	0.46 (0.05)	0.36 (0.15)	0.43 (0.08)	0.54 (0.02)	0.26 (0.30)	0.82 (0.00)	0.58 (0.01)	0.23 (0.35)	0.11 (0.67)	0.34 (0.16)	0.71 (0.00)
IL-4	0.40 (0.10)	0.55 (0.02)	0.58 (0.01)	1.00 (0.00)	0.20 (0.43)	-0.04 (0.86)	-0.17 (0.50)	0.19 (0.45)	0.67 (0.00)	0.32 (0.20)	0.40 (0.10)	0.35 (0.15)	0.17 (0.50)	-0.19 (0.45)	0.22 (0.39)	0.82 (0.00)
IL-5	0.43 (0.07)	0.65 (0.00)	0.37 (0.13)	0.20 (0.43)	1.00 (0.00)	-0.36 (0.14)	-0.43 (0.07)	0.67 (0.00)	0.63 (0.00)	0.65 (0.00)	0.39 (0.11)	0.48 (0.05)	0.77 (0.00)	0.64 (0.00)	0.70 (0.00)	0.35 (0.16)
IL-6	-0.16 (0.51)	-0.05 (0.85)	0.46 (0.05)	-0.04 (0.86)	-0.36 (0.14)	1.00 (0.00)	0.93 (0.00)	-0.17 (0.50)	-0.19 (0.46)	-0.07 (0.79)	0.63 (0.01)	0.02 (0.94)	-0.39 (0.11)	-0.01 (0.96)	-0.17 (0.50)	0.14 (0.59)
IL-8	-0.27 (0.28)	-0.23 (0.35)	0.36 (0.15)	-0.17 (0.50)	-0.43 (0.07)	0.93 (0.00)	1.00 (0.00)	-0.21 (0.41)	-0.27 (0.27)	-0.18 (0.48)	0.51 (0.03)	0.02 (0.94)	-0.31 (0.21)	0.02 (0.94)	-0.21 (0.39)	0.05 (0.83)
IL-10	0.27 (0.28)	0.44 (0.07)	0.43 (0.08)	0.19 (0.45)	0.67 (0.00)	-0.17 (0.50)	-0.21 (0.41)	1.00 (0.00)	0.38 (0.12)	0.32 (0.20)	0.25 (0.31)	0.23 (0.35)	0.57 (0.01)	0.41 (0.09)	0.62 (0.01)	0.43 (0.07)
IL-12p70	0.54 (0.02)	0.61 (0.01)	0.54 (0.02)	0.67 (0.00)	0.63 (0.00)	-0.19 (0.46)	-0.27 (0.27)	0.38 (0.12)	1.00 (0.00)	0.64 (0.00)	0.53 (0.02)	0.61 (0.01)	0.68 (0.00)	0.34 (0.17)	0.66 (0.00)	0.60 (0.01)
IL-13	0.50 (0.04)	0.48 (0.04)	0.26 (0.30)	0.32 (0.20)	0.65 (0.00)	-0.07 (0.79)	-0.18 (0.48)	0.32 (0.20)	0.64 (0.00)	1.00 (0.00)	0.50 (0.03)	0.32 (0.20)	0.58 (0.01)	0.57 (0.01)	0.44 (0.07)	0.32 (0.20)
IL-15	0.34 (0.17)	0.52 (0.03)	0.82 (0.00)	0.40 (0.10)	0.39 (0.11)	0.63 (0.01)	0.51 (0.03)	0.25 (0.31)	0.53 (0.02)	0.50 (0.03)	1.00 (0.00)	0.46 (0.05)	0.26 (0.29)	0.38 (0.12)	0.38 (0.12)	0.59 (0.01)
IL-17	0.23 (0.36)	0.53 (0.02)	0.58 (0.01)	0.35 (0.15)	0.48 (0.05)	0.02 (0.94)	0.02 (0.94)	0.23 (0.35)	0.61 (0.01)	0.32 (0.20)	0.46 (0.05)	1.00 (0.00)	0.43 (0.07)	0.18 (0.47)	0.53 (0.02)	0.36 (0.14)
IL-23	0.34 (0.17)	0.30 (0.22)	0.23 (0.35)	0.17 (0.50)	0.77 (0.00)	-0.39 (0.11)	-0.31 (0.21)	0.57 (0.01)	0.68 (0.00)	0.58 (0.01)	0.26 (0.29)	0.43 (0.07)	1.00 (0.00)	0.71 (0.00)	0.61 (0.01)	0.27 (0.27)
IFN-g	0.10 (0.68)	0.21 (0.41)	0.11 (0.67)	-0.19 (0.45)	0.64 (0.00)	-0.01 (0.96)	0.02 (0.94)	0.41 (0.09)	0.34 (0.17)	0.57 (0.01)	0.38 (0.12)	0.18 (0.47)	0.71 (0.00)	1.00 (0.00)	0.63 (0.00)	0.12 (0.63)
TNFa	0.28 (0.27)	0.54 (0.02)	0.34 (0.16)	0.22 (0.39)	0.70 (0.00)	-0.17 (0.50)	-0.21 (0.39)	0.62 (0.01)	0.66 (0.00)	0.44 (0.07)	0.38 (0.12)	0.53 (0.02)	0.61 (0.01)	0.63 (0.00)	1.00 (0.00)	0.46 (0.06)
TNFb	0.30 (0.23)	0.65 (0.00)	0.71 (0.00)	0.82 (0.00)	0.35 (0.16)	0.14 (0.59)	0.05 (0.83)	0.43 (0.07)	0.60 (0.01)	0.32 (0.20)	0.59 (0.01)	0.36 (0.14)	0.27 (0.27)	0.12 (0.63)	0.46 (0.06)	1.00 (0.00)
Correlation co	pefficients wi	th p-value for	r log transfor	med concnetr	ations in Ctrl	group only										
	TI 10	71 4 4	11 2	TI 4	11-5	II-6	11-8	TI_10	TI 12-70	II-13	IL-15	IL-17	TI - 23			
	IL-1d	IL-ID	IL-2	11-4	11-5	12 0	12.0	16-10	IL-IZD/U	12 10			16 25	IFIN-g	TNFa	TNFb
IL-1a	1.00 (0.00)	0.25 (0.24)	0.21 (0.33)	0.23 (0.28)	0.12 (0.59)	-0.17 (0.42)	-0.50 (0.01)	0.02 (0.94)	0.32 (0.13)	0.18 (0.41)	0.12 (0.59)	0.12 (0.57)	0.00 (1.00)	0.20 (0.36)	TNFa -0.04 (0.87)	TNFb 0.14 (0.52)
IL-1a IL-1b	1.00 (0.00) 0.25 (0.24)	0.25 (0.24)	0.21 (0.33) 0.33 (0.12)	0.23 (0.28) 0.79 (0.00)	0.12 (0.59) 0.62 (0.00)	-0.17 (0.42) 0.48 (0.02)	-0.50 (0.01) 0.01 (0.98)	0.02 (0.94) 0.24 (0.26)	0.32 (0.13) 0.65 (0.00)	0.18 (0.41) 0.57 (0.00)	0.12 (0.59) 0.90 (0.00)	0.12 (0.57) 0.45 (0.03)	0.00 (1.00) 0.22 (0.30)	0.20 (0.36) 0.53 (0.01)	TNFa -0.04 (0.87) 0.83 (0.00)	TNFb 0.14 (0.52) 0.56 (0.00)
IL-1a IL-1b IL-2	1.00 (0.00) 0.25 (0.24) 0.21 (0.33)	0.25 (0.24) 1.00 (0.00) 0.33 (0.12)	0.21 (0.33) 0.33 (0.12) 1.00 (0.00)	0.23 (0.28) 0.79 (0.00) 0.03 (0.89)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14)	0.32 (0.13) 0.65 (0.00) 0.37 (0.07)	0.18 (0.41) 0.57 (0.00) 0.50 (0.01)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15)	0.00 (1.00) 0.22 (0.30) 0.44 (0.03)	0.20 (0.36) 0.53 (0.01) -0.32 (0.12)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35)
IL-1a IL-1b IL-2 IL-4	1.00 (0.00)           0.25 (0.24)           0.21 (0.33)           0.23 (0.28)	0.25 (0.24) 1.00 (0.00) 0.33 (0.12) 0.79 (0.00)	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89)	0.23 (0.28) 0.79 (0.00) 0.03 (0.89) 1.00 (0.00)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14) -0.21 (0.32)	0.32 (0.13) 0.65 (0.00) 0.37 (0.07) 0.64 (0.00)	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08)	0.00 (1.00) 0.22 (0.30) 0.44 (0.03) -0.03 (0.90)	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00)
IL-1a IL-1b IL-2 IL-4 IL-5	1.00 (0.00)           0.25 (0.24)           0.21 (0.33)           0.23 (0.28)           0.12 (0.59)	0.25 (0.24) 1.00 (0.00) 0.33 (0.12) 0.79 (0.00) 0.62 (0.00)	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89) -0.04 (0.87)	0.23 (0.28) 0.79 (0.00) 0.03 (0.89) 1.00 (0.00) 0.31 (0.14)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14) -0.21 (0.32) 0.45 (0.03)	0.32 (0.13) 0.65 (0.00) 0.37 (0.07) 0.64 (0.00) 0.42 (0.04)	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.07 (0.76)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.77 (0.00)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08) 0.08 (0.72)	0.00 (1.00) 0.22 (0.30) 0.44 (0.03) -0.03 (0.90) 0.20 (0.35)	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6	1.00 (0.00) 0.25 (0.24) 0.21 (0.33) 0.23 (0.28) 0.12 (0.59) -0.17 (0.42)	IL-1D           0.25 (0.24)           1.00 (0.00)           0.33 (0.12)           0.79 (0.00)           0.62 (0.00)           0.48 (0.02)	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89) -0.04 (0.87) 0.06 (0.77)	11-4           0.23 (0.28)           0.79 (0.00)           0.03 (0.89)           1.00 (0.00)           0.31 (0.14)           0.40 (0.06)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00) 0.21 (0.33)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14) -0.21 (0.32) 0.45 (0.03) 0.36 (0.09)	0.32 (0.13) 0.65 (0.00) 0.37 (0.07) 0.64 (0.00) 0.42 (0.04) 0.29 (0.17)	$\begin{array}{c} 0.18 \ (0.41) \\ 0.57 \ (0.00) \\ 0.50 \ (0.01) \\ 0.40 \ (0.05) \\ 0.07 \ (0.76) \\ 0.32 \ (0.12) \end{array}$	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.77 (0.00) 0.44 (0.03)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08) 0.08 (0.72) 0.44 (0.03)	0.00 (1.00) 0.22 (0.30) 0.44 (0.03) -0.03 (0.90) 0.20 (0.35) -0.11 (0.63)	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8	1.00 (0.00) 0.25 (0.24) 0.21 (0.33) 0.23 (0.28) 0.12 (0.59) -0.17 (0.42) -0.50 (0.01)	IL-1D           0.25 (0.24)           1.00 (0.00)           0.33 (0.12)           0.79 (0.00)           0.62 (0.00)           0.48 (0.02)           0.01 (0.98)	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89) -0.04 (0.87) 0.06 (0.77) -0.05 (0.83)	$\begin{array}{c} 1124\\ 0.23 (0.28)\\ 0.79 (0.00)\\ 0.03 (0.89)\\ 1.00 (0.00)\\ 0.31 (0.14)\\ 0.40 (0.06)\\ -0.05 (0.83)\end{array}$	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00) 0.21 (0.33) 0.04 (0.87)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00) 0.67 (0.00)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14) -0.21 (0.32) 0.45 (0.03) 0.36 (0.09) 0.43 (0.04)	0.32 (0.13) 0.65 (0.00) 0.37 (0.07) 0.64 (0.00) 0.42 (0.04) 0.29 (0.17) -0.15 (0.49)	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.07 (0.76) 0.32 (0.12) -0.08 (0.71)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.77 (0.00) 0.44 (0.03) 0.09 (0.66)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08) 0.08 (0.72) 0.44 (0.03) 0.19 (0.38)	0.00 (1.00) 0.22 (0.30) 0.44 (0.03) -0.03 (0.90) 0.20 (0.35) -0.11 (0.63) -0.19 (0.38)	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03) 0.09 (0.68)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.08 (0.71)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-8 IL-10	1.00 (0.00) 0.25 (0.24) 0.21 (0.33) 0.23 (0.28) 0.12 (0.59) -0.17 (0.42) -0.50 (0.01) 0.02 (0.94)	0.25 (0.24) 1.00 (0.00) 0.33 (0.12) 0.79 (0.00) 0.62 (0.00) 0.48 (0.02) 0.01 (0.98) 0.24 (0.26)	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89) -0.04 (0.87) 0.06 (0.77) -0.05 (0.83) 0.31 (0.14)	1L-4           0.23 (0.28)           0.79 (0.00)           0.03 (0.89)           1.00 (0.00)           0.31 (0.14)           0.40 (0.06)           -0.05 (0.83)           -0.21 (0.32)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00) 0.21 (0.33) 0.04 (0.87) 0.45 (0.03)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00) 0.67 (0.00) 0.36 (0.09)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00) 0.43 (0.04)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14) -0.21 (0.32) 0.45 (0.03) 0.36 (0.09) 0.43 (0.04) 1.00 (0.00)	0.32 (0.13) 0.65 (0.00) 0.37 (0.07) 0.64 (0.00) 0.42 (0.04) 0.29 (0.17) -0.15 (0.49) 0.05 (0.81)	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.07 (0.76) 0.32 (0.12) -0.08 (0.71) 0.07 (0.73)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.77 (0.00) 0.44 (0.03) 0.09 (0.66) 0.45 (0.03)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08) 0.08 (0.72) 0.44 (0.03) 0.19 (0.38) 0.07 (0.76)	0.00 (1.00) 0.22 (0.30) 0.44 (0.03) -0.03 (0.90) 0.20 (0.35) -0.11 (0.63) -0.19 (0.38) 0.41 (0.04)	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56) -0.09 (0.68)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03) 0.09 (0.68) 0.15 (0.48)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.08 (0.71) -0.35 (0.09)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-10 IL-12p70	1.00 (0.00) 0.25 (0.24) 0.21 (0.33) 0.23 (0.28) 0.12 (0.59) -0.17 (0.42) -0.50 (0.01) 0.02 (0.94) 0.32 (0.13)	$\begin{array}{c} 11-10\\ 0.25 \ (0.24)\\ 1.00 \ (0.00)\\ 0.33 \ (0.12)\\ 0.79 \ (0.00)\\ 0.62 \ (0.00)\\ 0.48 \ (0.02)\\ 0.01 \ (0.98)\\ 0.24 \ (0.26)\\ 0.65 \ (0.00) \end{array}$	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89) -0.04 (0.87) 0.06 (0.77) -0.05 (0.83) 0.31 (0.14) 0.37 (0.07)	1.124 0.23 (0.28) 0.79 (0.00) 0.03 (0.89) 1.00 (0.00) 0.31 (0.14) 0.40 (0.06) -0.05 (0.83) -0.21 (0.32) 0.64 (0.00)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00) 0.21 (0.33) 0.04 (0.87) 0.45 (0.03) 0.42 (0.04)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00) 0.67 (0.00) 0.36 (0.09) 0.29 (0.17)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00) 0.43 (0.04) -0.15 (0.49)	$\begin{array}{c} 1.2 \ 10\\ 0.02 \ (0.94)\\ 0.24 \ (0.26)\\ 0.31 \ (0.14)\\ -0.21 \ (0.32)\\ 0.45 \ (0.03)\\ 0.36 \ (0.09)\\ 0.43 \ (0.04)\\ 1.00 \ (0.00)\\ 0.05 \ (0.81) \end{array}$	$\begin{array}{c} 11-12p70\\ 0.32\ (0.13)\\ 0.65\ (0.00)\\ 0.37\ (0.07)\\ 0.64\ (0.00)\\ 0.42\ (0.04)\\ 0.29\ (0.17)\\ -0.15\ (0.49)\\ 0.05\ (0.81)\\ 1.00\ (0.00) \end{array}$	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.32 (0.76) 0.32 (0.12) -0.08 (0.71) 0.07 (0.73) 0.37 (0.08)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.77 (0.00) 0.44 (0.03) 0.09 (0.66) 0.45 (0.03) 0.57 (0.00)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08) 0.08 (0.72) 0.44 (0.03) 0.19 (0.38) 0.07 (0.76) 0.31 (0.14)	$\begin{array}{c} 1.2 \\ 0.00 & (1.00) \\ 0.22 & (0.30) \\ 0.44 & (0.03) \\ -0.03 & (0.90) \\ 0.20 & (0.35) \\ -0.11 & (0.63) \\ -0.19 & (0.38) \\ 0.41 & (0.04) \\ 0.36 & (0.09) \end{array}$	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56) -0.09 (0.68) 0.56 (0.00)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03) 0.09 (0.68) 0.15 (0.48) 0.53 (0.01)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.08 (0.71) -0.35 (0.09) 0.47 (0.02)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-10 IL-12p70 IL-13	1.00 (0.00) 0.25 (0.24) 0.21 (0.33) 0.23 (0.28) 0.12 (0.59) -0.17 (0.42) -0.50 (0.01) 0.02 (0.94) 0.32 (0.13) 0.18 (0.41)	$\begin{array}{c} 11-10\\ 0.25 \ (0.24)\\ 1.00 \ (0.00)\\ 0.33 \ (0.12)\\ 0.79 \ (0.00)\\ 0.62 \ (0.00)\\ 0.48 \ (0.02)\\ 0.01 \ (0.98)\\ 0.24 \ (0.26)\\ 0.65 \ (0.00)\\ 0.57 \ (0.00) \end{array}$	0.21 (0.33) 0.33 (0.12) 1.00 (0.00) 0.03 (0.89) -0.04 (0.87) 0.06 (0.77) -0.05 (0.83) 0.31 (0.14) 0.37 (0.07) 0.50 (0.01)	112-4 0.23 (0.28) 0.79 (0.00) 0.03 (0.89) 1.00 (0.00) 0.31 (0.14) 0.40 (0.06) -0.05 (0.83) -0.21 (0.32) 0.64 (0.00) 0.40 (0.05)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00) 0.21 (0.33) 0.04 (0.87) 0.45 (0.03) 0.42 (0.04) 0.07 (0.76)	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00) 0.67 (0.00) 0.36 (0.09) 0.29 (0.17) 0.32 (0.12)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00) 0.43 (0.04) -0.15 (0.49) -0.08 (0.71)	0.02 (0.94) 0.24 (0.26) 0.31 (0.14) -0.21 (0.32) 0.45 (0.03) 0.45 (0.03) 0.43 (0.04) 1.00 (0.00) 0.05 (0.81) 0.07 (0.73)	$\begin{array}{c} 11-12p70\\ 0.32\ (0.13)\\ 0.65\ (0.00)\\ 0.37\ (0.07)\\ 0.64\ (0.00)\\ 0.42\ (0.04)\\ 0.29\ (0.17)\\ -0.15\ (0.49)\\ 0.05\ (0.81)\\ 1.00\ (0.00)\\ 0.37\ (0.08)\\ \end{array}$	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.32 (0.12) -0.08 (0.71) 0.07 (0.73) 0.37 (0.08) 1.00 (0.00)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.44 (0.03) 0.09 (0.66) 0.45 (0.03) 0.57 (0.00) 0.51 (0.01)	$\begin{array}{c} 0.12 \ (0.57) \\ 0.45 \ (0.03) \\ 0.30 \ (0.15) \\ 0.36 \ (0.08) \\ 0.08 \ (0.72) \\ 0.44 \ (0.03) \\ 0.19 \ (0.38) \\ 0.07 \ (0.76) \\ 0.31 \ (0.14) \\ 0.58 \ (0.00) \end{array}$	$\begin{array}{c} 1.2 \\ 0.00 & (1.00) \\ 0.22 & (0.30) \\ 0.44 & (0.03) \\ -0.03 & (0.90) \\ 0.20 & (0.35) \\ -0.11 & (0.63) \\ -0.19 & (0.38) \\ 0.41 & (0.04) \\ 0.36 & (0.09) \\ 0.19 & (0.38) \end{array}$	0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56) -0.09 (0.68) 0.56 (0.00) 0.05 (0.83)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03) 0.09 (0.68) 0.15 (0.48) 0.53 (0.01) 0.35 (0.09)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.08 (0.71) -0.35 (0.09) 0.47 (0.02) 0.50 (0.01)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-10 IL-12p70 IL-13 IL-15	$\begin{array}{c} 1.2^{-1.2}\\ 1.00 \ (0.00)\\ 0.25 \ (0.24)\\ 0.21 \ (0.33)\\ 0.23 \ (0.28)\\ 0.12 \ (0.59)\\ -0.17 \ (0.42)\\ -0.50 \ (0.01)\\ 0.02 \ (0.94)\\ 0.32 \ (0.13)\\ 0.18 \ (0.41)\\ 0.12 \ (0.59) \end{array}$	$\begin{array}{c} 11-10\\ 0.25 & (0.24)\\ 1.00 & (0.00)\\ 0.33 & (0.12)\\ 0.79 & (0.00)\\ 0.62 & (0.00)\\ 0.648 & (0.02)\\ 0.01 & (0.98)\\ 0.24 & (0.26)\\ 0.65 & (0.00)\\ 0.57 & (0.00)\\ 0.90 & (0.00)\\ \end{array}$	$\begin{array}{c} 11-2\\ 0.21\ (0.33)\\ 0.33\ (0.12)\\ 1.00\ (0.00)\\ 0.03\ (0.87)\\ 0.06\ (0.77)\\ -0.05\ (0.83)\\ 0.31\ (0.14)\\ 0.37\ (0.07)\\ 0.50\ (0.01)\\ 0.32\ (0.13)\\ \end{array}$	112-4 0.23 (0.28) 0.79 (0.00) 0.03 (0.89) 1.00 (0.00) 0.31 (0.14) 0.40 (0.06) -0.05 (0.83) -0.21 (0.32) 0.64 (0.00) 0.40 (0.05) 0.57 (0.00)	$\begin{array}{c} 1.12 \\ 0.12 \\ (0.59) \\ 0.62 \\ (0.00) \\ -0.04 \\ (0.87) \\ 0.31 \\ (0.14) \\ 1.00 \\ (0.00) \\ 0.21 \\ (0.33) \\ 0.04 \\ (0.87) \\ 0.45 \\ (0.03) \\ 0.42 \\ (0.04) \\ 0.07 \\ (0.76) \\ 0.77 \\ (0.00) \end{array}$	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00) 0.67 (0.00) 0.36 (0.09) 0.29 (0.17) 0.32 (0.12) 0.44 (0.03)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00) 0.43 (0.04) -0.15 (0.49) -0.08 (0.71) 0.09 (0.66)	$\begin{array}{c} 1.2 & 10\\ 0.02 & (0.94)\\ 0.24 & (0.26)\\ 0.31 & (0.14)\\ -0.21 & (0.32)\\ 0.45 & (0.03)\\ 0.36 & (0.09)\\ 0.43 & (0.04)\\ 1.00 & (0.00)\\ 0.05 & (0.81)\\ 0.07 & (0.73)\\ 0.45 & (0.03)\\ \end{array}$	$\begin{array}{c} 11-12p70\\ 0.32\ (0.13)\\ 0.65\ (0.00)\\ 0.37\ (0.07)\\ 0.64\ (0.00)\\ 0.42\ (0.04)\\ 0.29\ (0.17)\\ -0.15\ (0.49)\\ 0.05\ (0.81)\\ 1.00\ (0.00)\\ 0.37\ (0.08)\\ 0.57\ (0.00)\\ \end{array}$	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.07 (0.76) 0.32 (0.12) -0.08 (0.71) 0.07 (0.73) 0.37 (0.08) 1.00 (0.00) 0.51 (0.01)	0.12 (0.59) 0.90 (0.00) 0.32 (0.13) 0.57 (0.00) 0.77 (0.00) 0.77 (0.00) 0.44 (0.03) 0.09 (0.66) 0.45 (0.03) 0.57 (0.00) 0.51 (0.01) 1.00 (0.00)	0.12 (0.57) 0.45 (0.03) 0.30 (0.15) 0.36 (0.08) 0.08 (0.72) 0.44 (0.03) 0.19 (0.38) 0.07 (0.76) 0.31 (0.14) 0.58 (0.00) 0.39 (0.06)	$\begin{array}{c} 0.00 & (1.00) \\ 0.02 & (0.30) \\ 0.44 & (0.03) \\ -0.03 & (0.90) \\ 0.20 & (0.35) \\ -0.11 & (0.63) \\ -0.19 & (0.38) \\ 0.41 & (0.04) \\ 0.36 & (0.09) \\ 0.19 & (0.38) \\ 0.39 & (0.06) \end{array}$	117N-6 0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.54 (0.01) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56) -0.09 (0.68) 0.56 (0.00) 0.05 (0.83) 0.45 (0.03)	TNFa -0.04 (0.87) 0.83 (0.00) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03) 0.09 (0.68) 0.15 (0.48) 0.53 (0.01) 0.35 (0.09) 0.81 (0.00)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.08 (0.71) -0.35 (0.09) 0.47 (0.02) 0.50 (0.01) 0.29 (0.17)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-10 IL-12p70 IL-13 IL-15 IL-17	1.00 (0.00) 0.25 (0.24) 0.21 (0.33) 0.23 (0.28) 0.12 (0.59) -0.17 (0.42) -0.50 (0.01) 0.02 (0.94) 0.32 (0.13) 0.18 (0.41) 0.12 (0.59) 0.12 (0.57)	$\begin{array}{c} 11-10\\ 0.25 (0.24)\\ 1.00 (0.00)\\ 0.33 (0.12)\\ 0.79 (0.00)\\ 0.62 (0.00)\\ 0.48 (0.02)\\ 0.01 (0.98)\\ 0.24 (0.26)\\ 0.65 (0.00)\\ 0.57 (0.00)\\ 0.90 (0.00)\\ 0.90 (0.00)\\ 0.45 (0.03)\\ \end{array}$	$\begin{array}{c} 11-2\\ 0.21\ (0.33)\\ 0.33\ (0.12)\\ 1.00\ (0.00)\\ 0.03\ (0.89)\\ -0.04\ (0.87)\\ 0.06\ (0.77)\\ -0.05\ (0.83)\\ 0.31\ (0.14)\\ 0.37\ (0.07)\\ 0.50\ (0.01)\\ 0.32\ (0.15)\\ \end{array}$	$\begin{array}{c} 11-4\\ 0.23 \ (0.28)\\ 0.79 \ (0.00)\\ 0.03 \ (0.89)\\ 1.00 \ (0.00)\\ 0.31 \ (0.14)\\ 0.40 \ (0.06)\\ -0.05 \ (0.83)\\ -0.21 \ (0.32)\\ 0.64 \ (0.00)\\ 0.40 \ (0.05)\\ 0.57 \ (0.00)\\ 0.36 \ (0.08)\end{array}$	$\begin{array}{c} 1.2 \\ 0.12 \\ (0.59) \\ 0.62 \\ (0.00) \\ -0.04 \\ (0.87) \\ 0.31 \\ (0.14) \\ 1.00 \\ (0.00) \\ 0.21 \\ (0.33) \\ 0.04 \\ (0.87) \\ 0.45 \\ (0.03) \\ 0.45 \\ (0.03) \\ 0.45 \\ (0.03) \\ 0.45 \\ (0.03) \\ 0.07 \\ (0.00) \\ 0.08 \\ (0.72) \end{array}$	-0.17 (0.42) 0.48 (0.02) 0.06 (0.77) 0.40 (0.06) 0.21 (0.33) 1.00 (0.00) 0.67 (0.00) 0.36 (0.09) 0.29 (0.17) 0.32 (0.12) 0.44 (0.03)	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00) 0.43 (0.04) -0.15 (0.49) -0.08 (0.71) 0.09 (0.66) 0.19 (0.38)	$\begin{array}{c} 10.10\\ 0.02 \ (0.94)\\ 0.24 \ (0.26)\\ 0.31 \ (0.14)\\ 0.21 \ (0.32)\\ 0.45 \ (0.03)\\ 0.43 \ (0.04)\\ 1.00 \ (0.00)\\ 0.05 \ (0.81)\\ 0.07 \ (0.73)\\ 0.45 \ (0.03)\\ 0.07 \ (0.76)\\ \end{array}$	$\begin{array}{c} 11-12p70\\ 0.32\ (0.13)\\ 0.65\ (0.00)\\ 0.37\ (0.07)\\ 0.64\ (0.00)\\ 0.42\ (0.04)\\ 0.29\ (0.17)\\ -0.15\ (0.49)\\ 0.05\ (0.81)\\ 1.00\ (0.00)\\ 0.37\ (0.08)\\ 0.57\ (0.00)\\ 0.31\ (0.14)\\ \end{array}$	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.07 (0.76) 0.32 (0.12) -0.08 (0.71) 0.07 (0.73) 0.37 (0.08) 1.00 (0.00) 0.51 (0.01) 0.58 (0.00)	$\begin{array}{c} 0.12 \ (0.59) \\ 0.90 \ (0.00) \\ 0.32 \ (0.13) \\ 0.57 \ (0.00) \\ 0.77 \ (0.00) \\ 0.44 \ (0.03) \\ 0.09 \ (0.66) \\ 0.45 \ (0.03) \\ 0.57 \ (0.00) \\ 0.51 \ (0.01) \\ 1.00 \ (0.00) \\ 0.39 \ (0.06) \end{array}$	$\begin{array}{c} 0.12 \ (0.57) \\ 0.45 \ (0.03) \\ 0.30 \ (0.15) \\ 0.36 \ (0.08) \\ 0.08 \ (0.72) \\ 0.44 \ (0.03) \\ 0.19 \ (0.38) \\ 0.07 \ (0.76) \\ 0.31 \ (0.14) \\ 0.58 \ (0.00) \\ 0.39 \ (0.60) \\ 1.00 \ (0.00) \end{array}$	$\begin{array}{c} 1.100\\ 0.00 \ (1.00)\\ 0.22 \ (0.30)\\ 0.44 \ (0.03)\\ 0.03 \ (0.90)\\ 0.20 \ (0.35)\\ -0.11 \ (0.63)\\ -0.19 \ (0.38)\\ 0.41 \ (0.04)\\ 0.36 \ (0.09)\\ 0.19 \ (0.38)\\ 0.39 \ (0.66)\\ 0.13 \ (0.56)\\ \end{array}$	1610-5 0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56) -0.09 (0.68) 0.56 (0.00) 0.05 (0.83) 0.45 (0.03) 0.45 (0.49)	TNFa -0.04 (0.87) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.46 (0.03) 0.09 (0.68) 0.15 (0.48) 0.53 (0.01) 0.81 (0.00) 0.33 (0.12)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.08 (0.71) -0.35 (0.09) 0.47 (0.02) 0.50 (0.01) 0.29 (0.17) 0.33 (0.11)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-10 IL-12p70 IL-13 IL-13 IL-15 IL-17 IL-23	$\begin{array}{c} 1.216\\ 1.00 (0.00)\\ 0.25 (0.24)\\ 0.21 (0.33)\\ 0.23 (0.28)\\ -0.17 (0.42)\\ -0.50 (0.01)\\ 0.02 (0.94)\\ 0.32 (0.13)\\ 0.18 (0.41)\\ 0.12 (0.57)\\ 0.00 (1.00) \end{array}$	$\begin{array}{c} 11-10\\ 0.25 \ (0.24)\\ 1.00 \ (0.00)\\ 0.33 \ (0.12)\\ 0.79 \ (0.00)\\ 0.62 \ (0.00)\\ 0.648 \ (0.02)\\ 0.24 \ (0.26)\\ 0.57 \ (0.00)\\ 0.57 \ (0.00)\\ 0.57 \ (0.00)\\ 0.45 \ (0.3)\\ 0.22 \ (0.30)\\ \end{array}$	$\begin{array}{c} 11-2\\ 0.21 (0.33)\\ 0.33 (0.12)\\ 1.00 (0.00)\\ 0.03 (0.89)\\ -0.04 (0.87)\\ 0.06 (0.77)\\ -0.05 (0.83)\\ 0.31 (0.14)\\ 0.37 (0.07)\\ 0.50 (0.01)\\ 0.32 (0.13)\\ 0.30 (0.15)\\ 0.44 (0.03) \end{array}$	1.21 0.23 (0.28) 0.79 (0.00) 0.03 (0.89) 1.00 (0.00) 0.31 (0.14) 0.40 (0.06) -0.05 (0.83) -0.21 (0.32) 0.64 (0.00) 0.40 (0.05) 0.36 (0.08) -0.03 (0.90)	0.12 (0.59) 0.62 (0.00) -0.04 (0.87) 0.31 (0.14) 1.00 (0.00) 0.21 (0.33) 0.04 (0.87) 0.45 (0.03) 0.42 (0.04) 0.07 (0.76) 0.77 (0.00) 0.08 (0.72) 0.20 (0.35)	$\begin{array}{c} -0.17 \ (0.42) \\ 0.48 \ (0.02) \\ 0.48 \ (0.02) \\ 0.40 \ (0.76) \\ 0.21 \ (0.33) \\ 1.00 \ (0.00) \\ 0.57 \ (0.00) \\ 0.36 \ (0.09) \\ 0.29 \ (0.17) \\ 0.32 \ (0.12) \\ 0.44 \ (0.03) \\ -0.11 \ (0.63) \\ \end{array}$	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) 0.04 (0.87) 0.67 (0.00) 1.00 (0.00) 0.43 (0.04) -0.15 (0.49) -0.08 (0.71) 0.09 (0.66) 0.19 (0.38) -0.19 (0.38)	$\begin{array}{c} 1.1 \\ 0.02 \ (0.94) \\ 0.24 \ (0.26) \\ 0.31 \ (0.14) \\ -0.21 \ (0.32) \\ 0.45 \ (0.03) \\ 0.36 \ (0.09) \\ 0.43 \ (0.04) \\ 1.00 \ (0.00) \\ 1.00 \ (0.73) \\ 0.07 \ (0.73) \\ 0.07 \ (0.76) \\ 0.07 \ (0.76) \\ 0.41 \ (0.04) \end{array}$	$\begin{array}{c} 1-12 p \gamma 0 \\ 0.32 \ (0.13) \\ 0.65 \ (0.00) \\ 0.37 \ (0.07) \\ 0.64 \ (0.00) \\ 0.64 \ (0.00) \\ 0.42 \ (0.04) \\ 0.29 \ (0.17) \\ -0.15 \ (0.49) \\ 0.05 \ (0.81) \\ 1.00 \ (0.00) \\ 0.37 \ (0.08) \\ 0.57 \ (0.00) \\ 0.31 \ (0.14) \\ 0.36 \ (0.09) \end{array}$	$\begin{array}{c} 0.18 \ (0.41) \\ 0.57 \ (0.00) \\ 0.50 \ (0.01) \\ 0.40 \ (0.57 \\ 0.07 \ (0.76) \\ 0.32 \ (0.12) \\ -0.08 \ (0.71) \\ 0.37 \ (0.08) \\ 1.00 \ (0.00) \\ 0.51 \ (0.01) \\ 0.58 \ (0.00) \\ 0.19 \ (0.38) \end{array}$	$\begin{array}{c} 0.12 \ (0.59) \\ 0.90 \ (0.00) \\ 0.32 \ (0.13) \\ 0.57 \ (0.00) \\ 0.77 \ (0.00) \\ 0.77 \ (0.00) \\ 0.44 \ (0.03) \\ 0.09 \ (0.66) \\ 0.57 \ (0.01) \\ 1.00 \ (0.00) \\ 0.39 \ (0.06) \\ 0.39 \ (0.06) \end{array}$	$\begin{array}{c} 0.12 \ (0.57) \\ 0.45 \ (0.03) \\ 0.30 \ (0.15) \\ 0.36 \ (0.08) \\ 0.08 \ (0.72) \\ 0.44 \ (0.03) \\ 0.07 \ (0.76) \\ 0.31 \ (0.74) \\ 0.58 \ (0.00) \\ 0.39 \ (0.06) \\ 1.00 \ (0.00) \\ 0.13 \ (0.56) \end{array}$	$\begin{array}{c} 0.00 \ (1.00) \\ 0.22 \ (0.30) \\ 0.22 \ (0.30) \\ 0.30 \ (0.30) \\ -0.13 \ (0.30) \\ -0.11 \ (0.63) \\ -0.11 \ (0.63) \\ 0.41 \ (0.04) \\ 0.36 \ (0.09) \\ 0.19 \ (0.38) \\ 0.39 \ (0.06) \\ 0.13 \ (0.56) \\ 1.00 \ (0.00) \end{array}$	17N-6 0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.33 (0.11) -0.13 (0.56) -0.09 (0.68) 0.56 (0.00) 0.05 (0.83) 0.45 (0.03) 0.15 (0.49) 0.09 (0.67)	TNFa -0.04 (0.87) -0.01 (0.98) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.54 (0.01) 0.54 (0.01) 0.55 (0.03) 0.15 (0.48) 0.15 (0.48) 0.53 (0.01) 0.35 (0.09) 0.81 (0.00) 0.33 (0.12) 0.26 (0.21)	TKFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) 0.11 (0.61) 0.32 (0.13) -0.08 (0.71) -0.35 (0.09) 0.47 (0.02) 0.50 (0.01) 0.29 (0.17) -0.33 (0.11) -0.06 (0.79)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-15 IL-16 IL-12p70 IL-12p70 IL-13 IL-13 IL-15 IL-17 IL-23 IFN-9	$\begin{array}{c} 1.12 \\ 1.00 \ (0.00) \\ 0.25 \ (0.24) \\ 0.21 \ (0.33) \\ 0.23 \ (0.28) \\ 0.12 \ (0.59) \\ -0.17 \ (0.42) \\ 0.50 \ (0.01) \\ 0.02 \ (0.94) \\ 0.32 \ (0.13) \\ 0.18 \ (0.41) \\ 0.12 \ (0.59) \\ 0.12 \ (0.57) \\ 0.00 \ (1.00) \\ 0.20 \ (0.36) \end{array}$	$\begin{array}{c} 11-10\\ 0.25\ (0.24)\\ 1.00\ (0.00)\\ 0.33\ (0.12)\\ 0.79\ (0.00)\\ 0.62\ (0.00)\\ 0.62\ (0.00)\\ 0.64\ (0.02)\\ 0.24\ (0.26)\\ 0.57\ (0.00)\\ 0.57\ (0.00)\\ 0.57\ (0.03)\\ 0.22\ (0.33)\\ 0.22\ (0.33)\\ 0.25\ (0.01) \end{array}$	$\begin{array}{c} 11-2\\ 0.21 (0.33)\\ 0.33 (0.12)\\ 1.00 (0.00)\\ 0.03 (0.89)\\ -0.04 (0.87)\\ 0.06 (0.77)\\ 0.05 (0.83)\\ 0.31 (0.14)\\ 0.37 (0.07)\\ 0.50 (0.01)\\ 0.50 (0.01)\\ 0.50 (0.01)\\ 0.32 (0.15)\\ 0.44 (0.03)\\ -0.32 (0.12)\end{array}$	$\begin{array}{c} 1124\\ 0.23\ (0.28)\\ 0.79\ (0.00)\\ 0.03\ (0.89)\\ 1.00\ (0.00)\\ 0.31\ (0.14)\\ 0.40\ (0.65)\\ -0.05\ (0.83)\\ -0.21\ (0.32)\\ 0.40\ (0.05)\\ 0.57\ (0.00)\\ 0.36\ (0.08)\\ -0.03\ (0.90)\\ -0.03\ (0.90)\\ -0.58\ (0.00) \end{array}$	$\begin{array}{c} 0.12\ (0.59)\\ 0.62\ (0.00)\\ -0.04\ (0.87)\\ 0.31\ (0.14)\\ 1.00\ (0.00)\\ 0.21\ (0.33)\\ 0.45\ (0.03)\\ 0.45\ (0.03)\\ 0.45\ (0.03)\\ 0.45\ (0.03)\\ 0.45\ (0.03)\\ 0.77\ (0.00)\\ 0.07\ (0.76)\\ 0.77\ (0.00)\\ 0.08\ (0.72)\\ 0.20\ (0.35)\\ 0.54\ (0.01) \end{array}$	$\begin{array}{c} -0.17 \ (0.42) \\ 0.48 \ (0.02) \\ 0.66 \ (0.77) \\ 0.40 \ (0.06) \\ 0.21 \ (0.33) \\ 1.00 \ (0.00) \\ 0.67 \ (0.00) \\ 0.36 \ (0.09) \\ 0.29 \ (0.17) \\ 0.32 \ (0.12) \\ 0.44 \ (0.03) \\ 0.44 \ (0.03) \\ -0.11 \ (0.63) \\ 0.33 \ (0.11) \end{array}$	$\begin{array}{c} -0.50 \ (0.01) \\ 0.01 \ (0.98) \\ -0.05 \ (0.83) \\ 0.04 \ (0.87) \\ 0.04 \ (0.87) \\ 0.07 \ (0.00) \\ 0.43 \ (0.04) \\ -0.15 \ (0.49) \\ 0.09 \ (0.66) \\ 0.19 \ (0.38) \\ -0.13 \ (0.56) \end{array}$	$\begin{array}{c} 12 10\\ 0.02 \ (0.94)\\ 0.24 \ (0.26)\\ 0.31 \ (0.14)\\ 0.45 \ (0.03)\\ 0.45 \ (0.03)\\ 0.43 \ (0.04)\\ 1.00 \ (0.00)\\ 0.05 \ (0.81)\\ 0.07 \ (0.73)\\ 0.45 \ (0.03)\\ 0.07 \ (0.76)\\ 0.41 \ (0.04)\\ -0.09 \ (0.68) \end{array}$	$\begin{array}{c} 1-12 \\ 1-12 \\ 0.32 \\ (0.13) \\ 0.65 \\ (0.00) \\ 0.37 \\ (0.07) \\ 0.64 \\ (0.00) \\ 0.42 \\ (0.04) \\ 0.29 \\ (0.17) \\ 0.15 \\ (0.49) \\ 0.05 \\ (0.81) \\ 1.00 \\ (0.00) \\ 0.37 \\ (0.08) \\ 0.57 \\ (0.00) \\ 0.31 \\ (0.14) \\ 0.36 \\ (0.09) \\ 0.56 \\ (0.00) \end{array}$	$\begin{array}{c} 0.18 \ (0.41) \\ 0.57 \ (0.00) \\ 0.50 \ (0.01) \\ 0.40 \ (0.05) \\ 0.07 \ (0.76) \\ 0.32 \ (0.12) \\ 0.07 \ (0.73) \\ 0.07 \ (0.73) \\ 0.37 \ (0.08) \\ 1.00 \ (0.00) \\ 0.51 \ (0.01) \\ 0.51 \ (0.01) \\ 0.19 \ (0.38) \\ 0.05 \ (0.83) \end{array}$	$\begin{array}{c} 0.12 \ (0.59) \\ 0.90 \ (0.00) \\ 0.32 \ (0.13) \\ 0.57 \ (0.00) \\ 0.77 \ (0.00) \\ 0.09 \ (0.66) \\ 0.45 \ (0.03) \\ 0.57 \ (0.00) \\ 0.51 \ (0.01) \\ 1.00 \ (0.00) \\ 0.39 \ (0.06) \\ 0.45 \ (0.03) \\ 0.45 \ (0.03) \\ \end{array}$	$\begin{array}{c} 0.12 \ (0.57) \\ 0.45 \ (0.03) \\ 0.30 \ (0.15) \\ 0.36 \ (0.08) \\ 0.08 \ (0.72) \\ 0.44 \ (0.03) \\ 0.19 \ (0.38) \\ 0.07 \ (0.76) \\ 0.31 \ (0.14) \\ 0.58 \ (0.00) \\ 0.39 \ (0.06) \\ 1.00 \ (0.00) \\ 0.13 \ (0.56) \\ 0.15 \ (0.49) \end{array}$	$\begin{array}{c} 0.00 \ (1.00) \\ 0.22 \ (0.30) \\ 0.44 \ (0.03) \\ 0.03 \ (0.90) \\ 0.20 \ (0.35) \\ 0.11 \ (0.63) \\ 0.41 \ (0.04) \\ 0.36 \ (0.09) \\ 0.19 \ (0.38) \\ 0.39 \ (0.06) \\ 1.00 \ (0.00) \\ 1.00 \ (0.00) \\ 0.09 \ (0.67) \end{array}$	17%-2 0.20 (0.36) 0.53 (0.01) -0.32 (0.12) 0.58 (0.00) 0.54 (0.01) 0.54 (0.01) 0.33 (0.11) -0.13 (0.55) -0.09 (0.68) 0.05 (0.83) 0.45 (0.03) 0.45 (0.03) 0.09 (0.67) 0.09 (0.67)	TNFa -0.04 (0.87) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) 0.69 (0.68) 0.09 (0.68) 0.15 (0.48) 0.35 (0.09) 0.35 (0.09) 0.81 (0.00) 0.26 (0.21) 0.26 (0.21)	TNFb 0.14 (0.52) 0.56 (0.00) 0.20 (0.35) 0.80 (0.00) -0.11 (0.61) 0.32 (0.13) -0.38 (0.71) -0.35 (0.09) 0.47 (0.02) 0.50 (0.01) 0.50 (0.01) 0.33 (0.11) -0.06 (0.79) 0.27 (0.20)
IL-1a IL-1b IL-2 IL-4 IL-5 IL-6 IL-8 IL-10 IL-12p70 IL-13 IL-15 IL-17 IL-23 IFN-9 TNFa	$\begin{array}{c} 1.216\\ 1.00 (0.00)\\ 0.25 (0.24)\\ 0.21 (0.33)\\ 0.23 (0.28)\\ 0.12 (0.59)\\ -0.17 (0.42)\\ -0.50 (0.01)\\ 0.32 (0.13)\\ 0.32 (0.13)\\ 0.18 (0.41)\\ 0.32 (0.59)\\ 0.12 (0.57)\\ 0.00 (1.00)\\ 0.20 (0.36)\\ -0.04 (0.87)\end{array}$	$\begin{array}{c} 11-10\\ 0.25\ (0.24)\\ 1.00\ (0.00)\\ 0.33\ (0.12)\\ 0.79\ (0.00)\\ 0.62\ (0.00)\\ 0.62\ (0.00)\\ 0.48\ (0.02)\\ 0.01\ (0.98)\\ 0.24\ (0.26)\\ 0.57\ (0.00)\\ 0.57\ (0.00)\\ 0.57\ (0.00)\\ 0.45\ (0.3)\\ 0.22\ (0.30)\\ 0.53\ (0.01)\\ 0.53\ (0.01)\\ 0.53\ (0.01)\\ 0.53\ (0.00)\\ \end{array}$	$\begin{array}{c} 11-2\\ 0.21 (0.33)\\ 0.33 (0.12)\\ 1.00 (0.00)\\ 0.03 (0.89)\\ -0.04 (0.87)\\ 0.06 (0.77)\\ -0.05 (0.83)\\ 0.31 (0.14)\\ 0.37 (0.07)\\ 0.50 (0.01)\\ 0.32 (0.12)\\ 0.30 (0.15)\\ 0.44 (0.03)\\ -0.32 (0.12)\\ -0.01 (0.98)\end{array}$	$\begin{array}{c} 1.2-4\\ 0.23\ (0.28)\\ 0.79\ (0.00)\\ 1.00\ (0.00)\\ 0.31\ (0.14)\\ 0.40\ (0.60)\\ -0.05\ (0.83)\\ -0.21\ (0.32)\\ 0.64\ (0.00)\\ 0.64\ (0.05)\\ 0.57\ (0.00)\\ 0.58\ (0.00)\\ 0.58\ (0.00)\\ 0.58\ (0.00)\\ 0.77\ (0.00) \end{array}$	$\begin{array}{c} 0.12 \ (0.59) \\ 0.62 \ (0.00) \\ -0.04 \ (0.87) \\ 0.31 \ (0.14) \\ 1.00 \ (0.00) \\ 0.21 \ (0.33) \\ 0.04 \ (0.87) \\ 0.45 \ (0.03) \\ 0.42 \ (0.04) \\ 0.07 \ (0.00) \\ 0.08 \ (0.72) \\ 0.20 \ (0.35) \\ 0.54 \ (0.01) \\ 0.54 \ (0.01) \\ 0.54 \ (0.01) \end{array}$	$\begin{array}{c} -0.17 \ (0.42) \\ 0.48 \ (0.02) \\ 0.06 \ (0.77) \\ 0.40 \ (0.06) \\ 0.21 \ (0.33) \\ 1.00 \ (0.00) \\ 0.67 \ (0.00) \\ 0.67 \ (0.00) \\ 0.29 \ (0.17) \\ 0.32 \ (0.12) \\ 0.44 \ (0.03) \\ 0.44 \ (0.03) \\ 0.33 \ (0.11) \\ 0.46 \ (0.03) \end{array}$	-0.50 (0.01) 0.01 (0.98) -0.05 (0.83) -0.05 (0.83) -0.05 (0.83) -0.05 (0.83) -0.05 (0.83) -0.67 (0.00) 1.00 (0.00) 1.00 (0.00) -0.15 (0.49) -0.15 (0.49) -0.08 (0.71) 0.09 (0.68) -0.13 (0.58) -0.19	$\begin{array}{c} 0.02 \ (0.94) \\ 0.24 \ (0.26) \\ 0.31 \ (0.14) \\ -0.21 \ (0.32) \\ 0.45 \ (0.03) \\ 0.36 \ (0.09) \\ 0.43 \ (0.04) \\ 1.00 \ (0.00) \\ 0.05 \ (0.81) \\ 0.07 \ (0.73) \\ 0.45 \ (0.03) \\ 0.07 \ (0.76) \\ 0.07 \ (0.76) \\ 0.07 \ (0.64) \\ \end{array}$	$\begin{array}{c} 1.121210\\ 0.32\ (0.13)\\ 0.65\ (0.00)\\ 0.37\ (0.07)\\ 0.64\ (0.00)\\ 0.29\ (0.17)\\ -0.15\ (0.49)\\ 0.05\ (0.81)\\ 1.00\ (0.08)\\ 0.57\ (0.00)\\ 0.31\ (0.14)\\ 0.56\ (0.09)\\ 0.53\ (0.01)\\ \end{array}$	0.18 (0.41) 0.57 (0.00) 0.50 (0.01) 0.40 (0.05) 0.32 (0.12) -0.08 (0.71) 0.07 (0.76) 1.00 (0.00) 0.51 (0.01) 0.58 (0.00) 0.58 (0.09) 0.35 (0.09)	$\begin{array}{c} 0.12 \ (0.59) \\ 0.90 \ (0.00) \\ 0.32 \ (0.13) \\ 0.57 \ (0.00) \\ 0.77 \ (0.00) \\ 0.77 \ (0.00) \\ 0.44 \ (0.03) \\ 0.99 \ (0.66) \\ 0.45 \ (0.03) \\ 0.57 \ (0.00) \\ 0.51 \ (0.01) \\ 1.00 \ (0.00) \\ 0.39 \ (0.06) \\ 0.39 \ (0.06) \\ 0.45 \ (0.03) \\ 0.81 \ (0.00) \\ 0.81 \ (0.00) \end{array}$	$\begin{array}{c} 0.12 \ (0.57) \\ 0.45 \ (0.03) \\ 0.30 \ (0.15) \\ 0.36 \ (0.08) \\ 0.08 \ (0.72) \\ 0.44 \ (0.03) \\ 0.19 \ (0.38) \\ 0.07 \ (0.76) \\ 0.31 \ (0.14) \\ 0.58 \ (0.00) \\ 0.39 \ (0.06) \\ 1.00 \ (0.00) \\ 0.13 \ (0.56) \\ 0.15 \ (0.42) \\ 0.33 \ (0.12) \end{array}$	$\begin{array}{c} 0.00 \ (1.00) \\ 0.22 \ (0.30) \\ 0.44 \ (0.03) \\ -0.03 \ (0.90) \\ 0.20 \ (0.35) \\ -0.11 \ (0.53) \\ -0.19 \ (0.38) \\ 0.41 \ (0.04) \\ 0.36 \ (0.09) \\ 0.19 \ (0.38) \\ 0.39 \ (0.06) \\ 0.13 \ (0.56) \\ 1.00 \ (0.00) \\ 0.09 \ (0.67) \\ 0.26 \ (0.21) \end{array}$	IFN-G           0.20 (0.36)           0.53 (0.01)           -0.32 (0.12)           0.58 (0.00)           0.54 (0.01)           0.33 (0.11)           -0.13 (0.56)           -0.09 (0.68)           0.55 (0.00)           0.05 (0.83)           0.45 (0.03)           0.15 (0.49)           0.09 (0.67)           1.00 (0.00)           0.57 (0.00)	TNFa -0.04 (0.87) -0.04 (0.87) -0.01 (0.98) 0.77 (0.00) 0.54 (0.01) -0.46 (0.03) 0.09 (0.68) 0.15 (0.48) 0.53 (0.01) 0.35 (0.09) 0.81 (0.00) 0.33 (0.12) 0.26 (0.21) 0.57 (0.00)	TNFb           0.14 (0.52)           0.56 (0.00)           0.20 (0.35)           0.80 (0.00)           0.11 (0.61)           0.32 (0.13)           -0.03 (0.70)           0.35 (0.09)           0.47 (0.02)           0.50 (0.01)           0.29 (0.17)           0.33 (0.11)           -0.06 (0.79)           0.27 (0.20)           0.48 (0.02)

**Table S5.** Alternative Classification Models. Performance of linear classification models were IL-5 has been substituted for IL-23 or IFN- $\gamma$  or both to resolve collinearity issues with the latter by simple truncation. Statistics are shown for classification performance where a 90% confidence in assignment is imposed (Linear cw 90% conf.) and where the score alone is considered (Linear uncorrected).

	Classification based of	on IL-2, 6, 8, <mark>5</mark> , IFNg	]	Classification based of	on IL-2, 6, 8, 23, <mark>5</mark>	Classification based on IL-2, 6, 8, 5			
	Linear cw 90% Conf	Linear uncorrected		Linear cw 90% Conf	Linear uncorrected		Linear cw 90% Conf	Linear uncorrected	
Correct Rate	0.96	0.88		0.92	0.86		0.96	0.83	
Error Rate	0.04	0.12		0.08	0.14		0.04	0.17	
Inconclusive Rate	0.36	0.00		0.40	0.00		0.38	0.00	
Classified Rate	0.64	1.00		0.60	1.00		0.62	1.00	
Sensitivity	0.61	0.89		0.56	0.89		0.56	0.89	
Specificity	0.63	0.88		0.54	0.83		0.63	0.79	
Positive Predictive Value	0.55	0.84		0.48	0.80		0.53	0.76	
Negative Predictive Value	0.68	0.91		0.62	0.91		0.65	0.90	
Positive Likelihood	1.63	7.11		1.21	5.33		1.48	4.27	
Negative Likelihood	0.62	0.13		0.82	0.13		0.71	0.14	

**Table S6**. **Sensitivity study of n=4 Absent PI-CFS Profiles**. In order to assess the impact of the n=4 sets of duplicate cytokine profiles missing from the n=13 PI-CFS subject group, a series of 20, 50 and 100 simulation experiments were conducted. In each experiment a random set of n=4 sets of duplicate samples were selected from the recovered control data and added to the PI-CFS set. A stepwise regression model was then used to select discriminating cytokines based on this artificially augmented data. Below is the frequency with which each cytokine was selected in the 50 regression models.

	IL-1a	IL-1b	IL-2	IL-4	IL-5	IL-6	IL-8	IL-10	IL-12p70	IL-13	IL-15	IL-17	IL-23	IFNg	TNFa	TNFb
20 iterations	13	0	0	1	0	17	20	0	0	7	1	2	8	0	0	0
20 iterations	11	0	0	1	0	15	20	0	1	5	0	3	6	0	0	1
50 iterations	34	1	0	0	0	42	50	0	2	15	1	4	17	1	0	2
50 iterations	30	1	0	0	0	35	50	0	2	10	2	4	11	1	0	3
100 iterations	70	7	0	1	0	77	99	1	3	28	7	12	29	1	0	2
100 iterations	65	3	0	0	0	80	100	0	3	31	10	11	34	2	0	5
Average Selection																
Frequency (%)	64	2	0	2	0	79	100	0	3	28	5	11	32	1	0	4