

Supplementary Table 1 Test to analyze the Gaussian distribution for cytokines plasma levels in SLE patients. ¹[Kolmogorov-Smirnov (KS) test (with Dallal-Wilkinson-Lilliefors P value)]

	IL-1 β	IL-2	IL-4	IL-5	IL-6	IL-10	IL-12	IL-13	IFN- γ	TNF- α
KS normality test										
KS distance	0.3467	0.2942	0.3782	0.4866	0.3726	0.2319	0.1984	0.3056	0.2623	0.3159
P value	0.0001	0.0030	P<0.0001	P<0.0001	P<0.0001	0.0542	P > 0.10	0.0016	0.0148	0.0009
Passed normality test (alpha=0.05)?	No	No	No	No	No	Yes	Yes	No	No	No
P value summary	***	**	***	***	***	ns	ns	**	*	***
D'Agostino & Pearson omnibus normality test										
K2	4.246	5.512	20.04	29.18	16.75	8.592	14.61	4.113	3.481	3.291
P value	0.1197	0.0635	P<0.0001	P<0.0001	0.0002	0.0136	0.0007	0.1279	0.1755	0.1929
Passed normality test (alpha=0.05)?	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes
P value summary	ns	ns	***	***	***	*	***	ns	ns	ns
Shapiro-Wilk normality test										
W	0.6847	0.7518	0.5787	0.4290	0.6059	0.7518	0.8044	0.7600	0.8080	0.7276
P value	0.0004	0.0019	P<0.0001	P<0.0001	P<0.0001	0.0019	0.0077	0.0024	0.0085	0.0011
Passed normality test (alpha=0.05)?	No	No	No	No	No	No	No	No	No	No
P value summary	***	**	***	***	***	**	**	**	**	**

Supplementary Table 2 Test to analyze the Gaussian distribution for cytokines plasma levels in Controls. ¹[Kolmogorov-Smirnov (KS) test (with Dallal-Wilkinson-Lilliefor P value)]

	IL-1 β	IL-2	IL-4	IL-5	IL-6	IL-10	IL-12	IL-13	IFN- γ	TNF- α
KS normality test										
KS distance	0.4100	0.4136	0.3568	0.5060	0.4778	0.2882	0.2401	0.5204	0.3797	0.2666
P value	P<0.0001	P<0.0001	P<0.0001	P<0.0001	P<0.0001	0.0042	0.0391	P<0.0001	P<0.0001	0.0121
Passed normality test (alpha=0.05)?	No	No	No	No	No	No	No	No	No	No
P value summary	***	***	***	***	***	**	*	***	***	*
D'Agostino & Pearson omnibus normality test										
K2	26.26	9.722	7.196	35.13	25.63	7.241	14.46	35.87	15.92	9.546
P value	P<0.0001	0.0077	0.0274	P<0.0001	P<0.0001	0.0268	0.0007	P<0.0001	0.0003	0.0085
Passed normality test (alpha=0.05)?	No	No	No	No	No	No	No	No	No	No
P value summary	***	**	*	***	***	*	***	***	***	**
Shapiro-Wilk normality test										
W	0.5786	0.5927	0.7116	0.3951	0.4820	0.7643	0.7490	0.3487	0.5575	0.8162
P value	P<0.0001	P<0.0001	0.0007	P<0.0001	P<0.0001	0.0026	0.0018	P<0.0001	P<0.0001	0.0107
Passed normality test (alpha=0.05)?	No	No	No	No	No	No	No	No	No	No
P value summary	***	***	***	***	***	**	**	***	***	*

Supplementary Table 3 Test to analyze the Gaussian distribution for cytokines relative mRNA levels in PBMC. ¹[Kolmogorov-Smirnov (KS) test (with Dallal-Wilkinson-Lilliefors P value)]

	IL1B	IFNG	IL12A	IL6	TNF	IL10	IL2	TGFB2	IL5	TNFSF10
¹ KS normality test										
KS distance	0.2147	0.2170	0.2549	0.2407	0.2667	0.2540	0.2923	0.2339	0.3456	0.1720
P value	P > 0.10	0.0954	0.0207	0.0381	0.0121	0.0216	0.0034	0.0500	0.0006	P > 0.10
Passed normality test (alpha=0.05)?	Yes	Yes	No	No	No	No	No	Yes	No	Yes
P value summary	ns	ns	*	*	*	*	**	ns	***	ns
D'Agostino & Pearson omnibus normality test										
K2	5.590	17.04	1.675	8.021	17.68	2.954	23.63	2.914	23.02	1.911
P value	0.0611	0.0002	0.4328	0.0181	0.0001	0.2283	P<0.0001	0.2329	P<0.0001	0.3847
Passed normality test (alpha=0.05)?	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes
P value summary	ns	***	ns	*	***	ns	***	ns	***	ns
Shapiro-Wilk normality test										
W	0.8835	0.7856	0.8693	0.8169	0.7106	0.8486	0.6353	0.8630	0.6046	0.9266
P value	0.0794	0.0046	0.0512	0.0109	0.0007	0.0274	0.0001	0.0422	P<0.0001	0.3072
Passed normality test (alpha=0.05)?	Yes	No	Yes	No	No	No	No	No	No	Yes
P value summary	ns	**	ns	*	***	*	***	*	***	ns