Supplementary Figure 1. Interactions of the cholesterol with selected cytokines possess diagnostic value in the pathogenesis of cutaneous leishmaniosis. Proteins are demonstrated as spheres while cholesterol is shown as capsule-shaped node. Stronger associations are represented by thicker lines. Protein-protein interactions are shown in grey, chemical-protein interactions in green and interactions between chemicals in red.

Protein-Protein Network Stats

number of nodes: 22
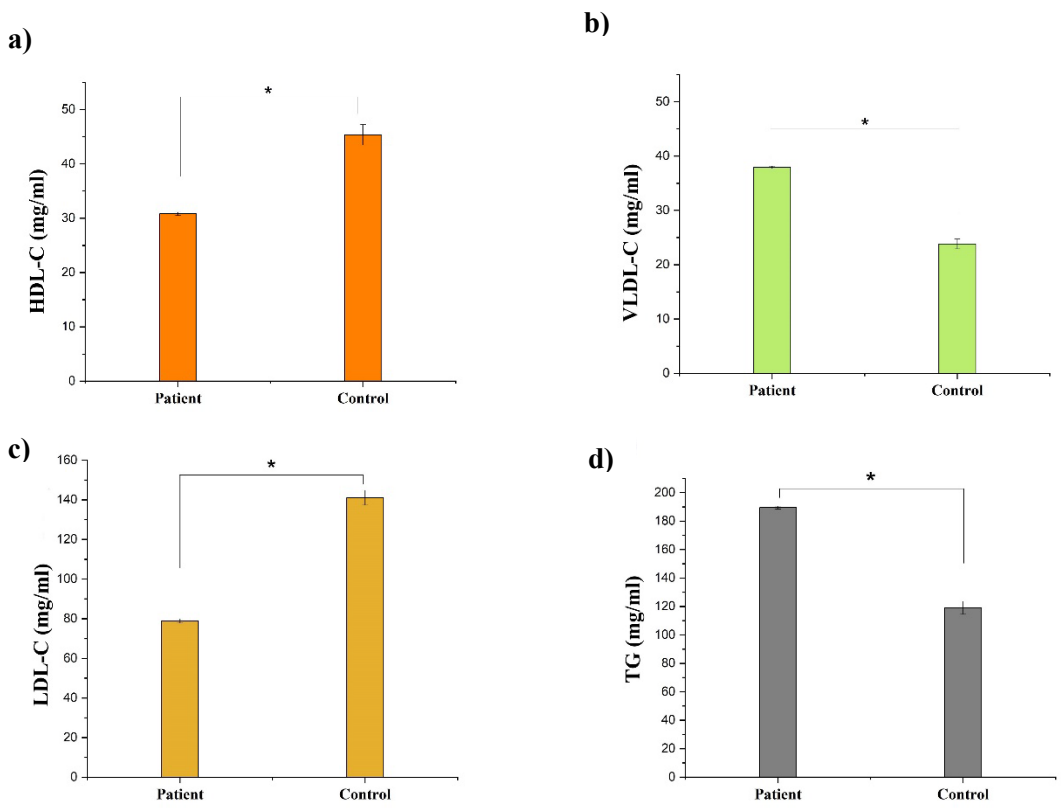
number of edges: 83

average node degree: 7.55

clustering coefficient: 0.88

expected number of edges: 24

PPI enrichment p-value: 0

Supplementary Figure 2. Average total of a) HDL-C, b) VLDL-C, c) LDL-C, d) TG,

 HDL-C: High-density lipoprotein-cholesterol, VLDL-C: Very-low-density lipoprotein-cholesterol;
LDL-C: Low density lipoprotein-cholesterol; TG: triglycerides. (*P≤0.05).

**Supplementary Table 1**. The serum cholesterol and cytokine profile in cutaneous leishmaniosis

	Cholesterol (mg/dL)	IL10 (ng/L)	IL12 (ng/L)	TNF-α (ng/L)
Patients (*n* = 50)	143.23 ±1.27	523.77 ± 8.29	202.48 ± 4.20	173.57 ± 18.96
Control (*n* = 25)	156.40 ±1.72	14.08 ± 1.72	144.09 ± 5.95	15.98 ± 0.92
T-test	4.335 **	21.349 **	15.557 **	61.570 **
P-value	0.0001	0.0001	0.0001	0.0001

Note: IL: interleukin; TNF-α: tumor necrosis factor alpha** (P≤0.01)

Supplementary Table 2. Comparison between patients and control in Lipid profile

Group	Mean ± SE (mg/dL)				
	Cholesterol	Triglyceride	HDL	VLDL	LD
Patients	141.47 ± 0.71	189.44 ± 1.01	30.80 ± 0.32	37.90 ± 0.22	78.85 ± 1.02
Control	161.65 ± 2.94	119.05 ± 4.48	45.35 ± 1.89	23.81 ± 0.90	141.01 ± 3.71
T-test	4.079 **	6.011 **	2.321 **	1.247 **	5.445 **
P-value	0.0001	0.0001	0.0001	0.0001	0.0001

** (P≤0.01).
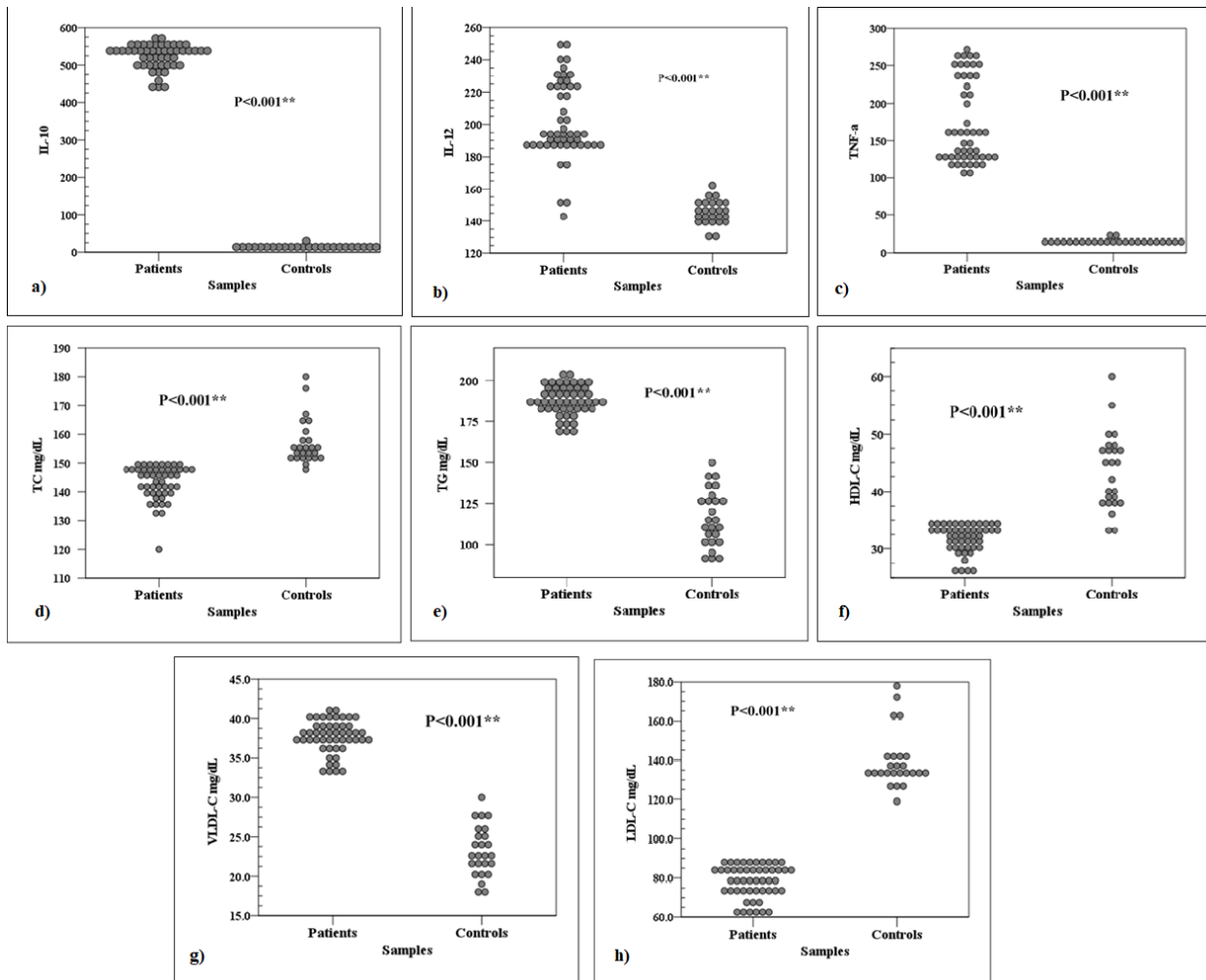
Supplementary Figure 3. The dot plots of differences in the distribution of cytokines and lipid profiles levels between cases and controls. a) IL-10, b) IL-12, c) TNF-α, d) TC, e) TG, f) HDL-C, g) VLDL-C and h) LDL-C.
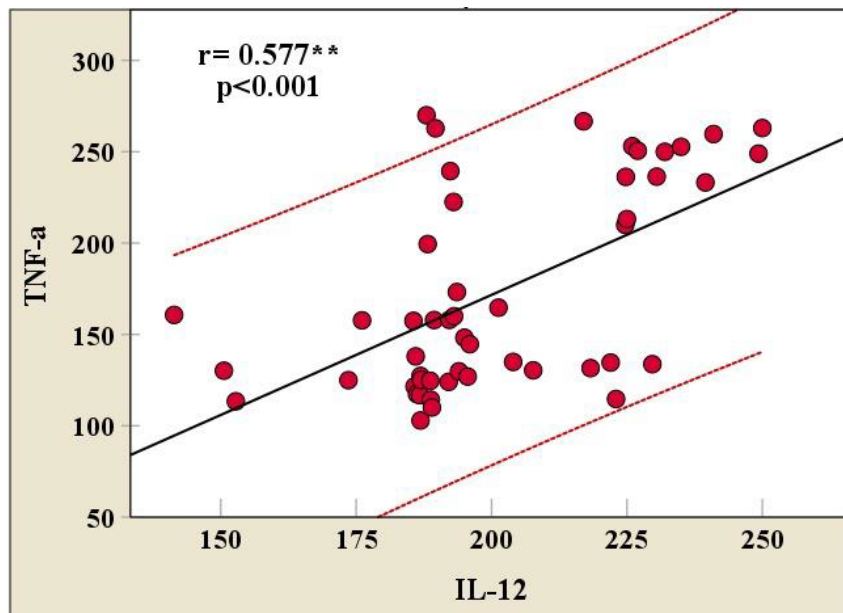
Supplementary Figure 4. The dot plot of significant correlation of IL12 and TNF-α**.** The separate red line expressed as 95%CI (Confidence interval)