

Table SI. Prediction of closely interacting partners with IL-6 and their functional description related to inflammation.

Protein	Functional description
STAT3	Signal transducer and transcription activator 3. It mediates the cellular responses to interleukin-6 and promotes various acute-phase protein genes. It acts as a regulator of inflammatory response by regulating T-helper cells.
JAK2	Tyrosine-protein kinase JAK2. It mediates essential signaling events in both innate and adaptive immunity. It plays a pivotal role in signal transduction via its association with type II receptors IFN- α , IFN- β and IFN- γ and multiple interleukins.