**Multiplexed Anti-Cytokine profiling in human disease.**

Auto-antibodies to Cytokines may cause states of secondary late onset immune-deficiency and infection which may mimic primary genetic defects usually manifesting as early onset disease.

A steadily increasing number of studies identified high titre often functionally neutralizing autoantibodies to single cytokines alone or as part of more complex anti-cytokine patterns to be associated with immunodeficiency characterized by susceptibilities to various pathogens. Identified targets include IFN gamma, GM-CSF, TH17 cytokines and Type I IFNs. This was recently termed as autoimmune phenocopies of primary immune deficiencies. An important role of anticytokine autoantibodies in the modulation of autoimmune/autoinflammatory diseases is increasingly recognized as well. In those conditions, anticytokine autoantibodies may be protective or promote disease

Luminex based multiplexed bead array is a highly flexible and powerful method to screen patients for anti-cytokine auto-antibodies and in the diagnostics of anti-cytokine auto-antibody associated syndromes.