Immunology Summit-2013

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference on
Clinical & Cellular Immunology

October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, USA

Host responses to pathogens in the transcriptome of ocular inflammation and associated autoimmune diseases

Sharma Srilakshmi
Bristol Eye Hospital, United Kingdom

Abstract

Study of gene-expression signature of inflammatory diseases provides evidence of novel immune markers in the pathogenesis of ankylosing spondylitis, sarcoidosis and ocular inflammation. Most striking, is the overexpression of transcripts for proteins which are involved in host responses to microorganisms. Comparing the key pathogeneic devices of S.flexneri, S. Typhi and mycobacterial species, we demonstrate a gene expression signature which demonstrates host involvement in cell invasion, hijacking of cell machinery by microorganisms and the innate immune response in AS, sarcoidosis and uveitis.