



Biomarkers for lymphoma development in Sjogren's syndrome: The role of ISG15

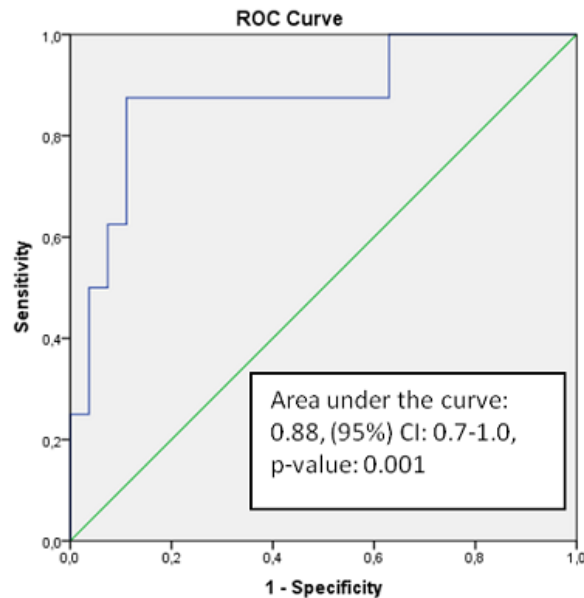
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↓IFN α and ↑IFN γ transcripts in salivary gland tissues from SS-lymphoma patients



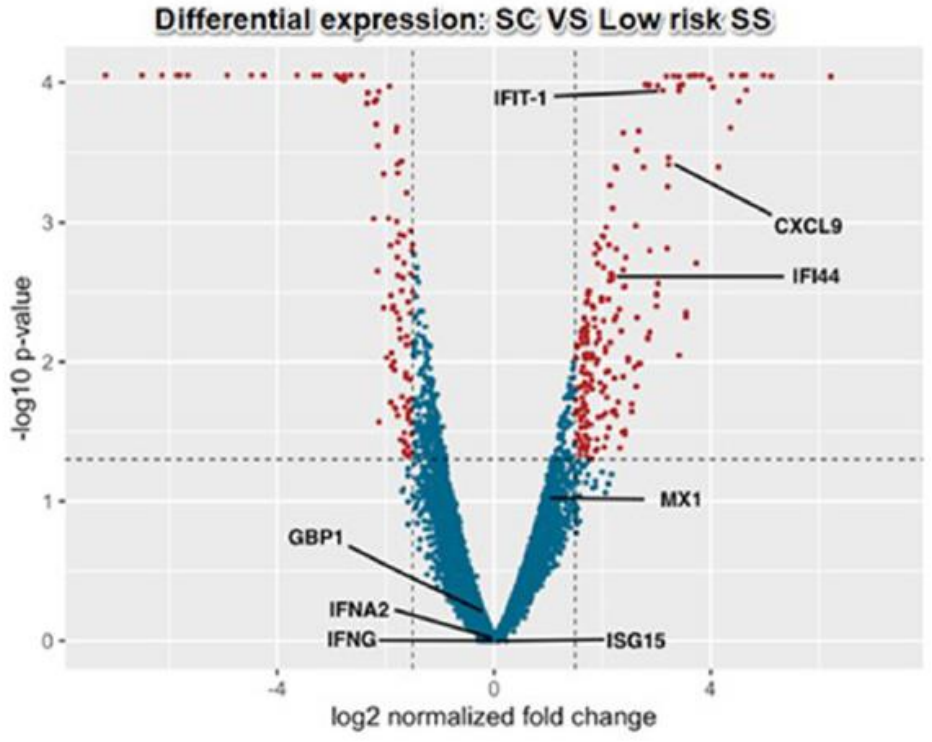
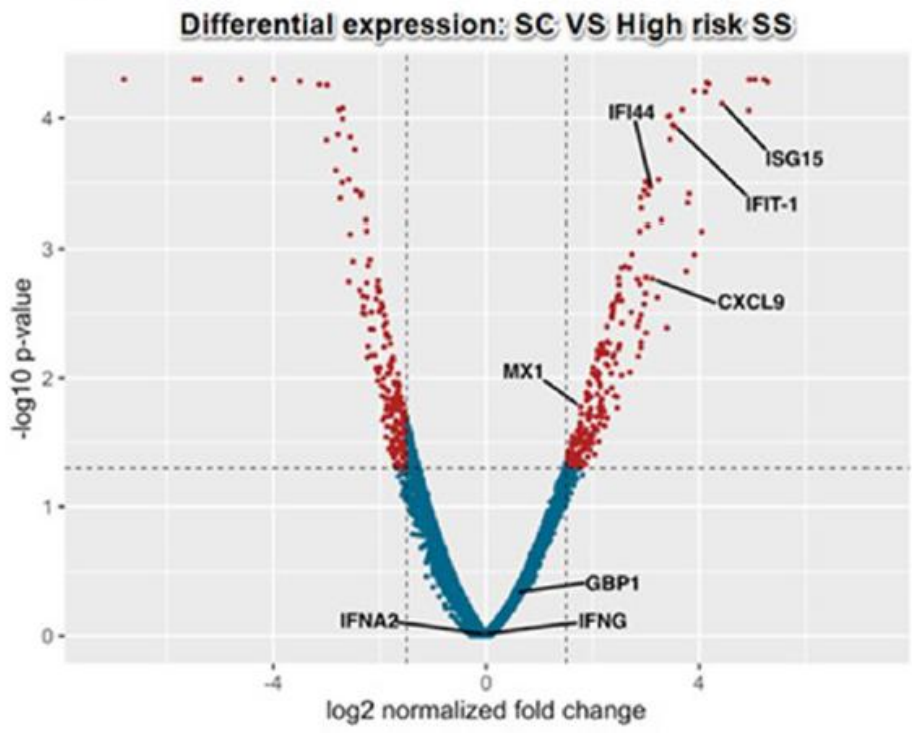
Interferon (IFN)-stimulated gene 15

- A strongly and rapidly induced type I IFN inducible gene with ubiquitin properties
- Involved in down regulation of type I IFN signaling and induction of IFN γ production
- ISG15-null patients display type I interferon autoinflammation (increased type I IFN signature, brain calcifications, neurological abnormalities) and susceptibility to mycobacterial infections

SS related MALT lymphomas

Deficiency of immunosurveillance and chronic inflammation

Role of Interferon (IFN)-stimulated gene 15 (ISG15)



ISG15 gene expression was upregulated in both salivary glands and peripheral blood from SS patients complicated by lymphoma

