

عنوان مقاله:

IRFY and STAT) gene expression profile in peripheral blood mononuclear cells of patients with systemic sclerosis

محل انتشار:

فصلنامه تحقيقات روماتولوژی, دوره 5, شماره 3 (سال: 1399)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

The critical role of IFN signature genes has increasingly been surveyed to determine the etiology and pathogenesis of systemicsclerosis (SSc). Interferon-regulatory factors (IRFs) and signal transducers and activators of transcription (STATs) are mainlyconsidered as transcriptional modulators of IFN-signature genes and type I interferon and play a major role in the regulation ofnumerous aspects of an immune response. The current study aimed to assess the transcriptional levels of IRFY (interferonregulatory factor Y) and STAT1 (signal transducers and activators of transcription 1) mRNAs in PBMCs of scleroderma patients and compare them with those of healthy subjects. In this study, PBMCs were obtained from ۵. scleroderma patients and ۳. healthy individuals. Subsequently, total RNA wasextracted from isolated PBMCs and cDNA synthesis was carried out. IRFy and STATI mRNA expressions were assessed by applying quantitative real-time PCR, SYBR Green method, and specific primers for IRFY and STAT). Relative expression of IRFY was significantly increased in the patient group compared with the control group. Moreover, relativeexpression of IRFY in limited SSc (ISSc) and diffuse SSc (dSSc) was significantly increased compared with healthy subjects (p< ... a). The relative expression of STAT1 transcripts in PBMCs was not statistically significantly different between the patientgroup and the control group. The correlation between IRFY expression and the Rodnan score (RS) of the disease was significant. Considering the overexpression of IRFY in SSc patients and significant correlation between the IRFY and the Rodnan score of the disease, it is suggested that impaired expression .of IRFY is involved in the pathogenesis of SSc

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