

رتبه اول ایرانی مقیم خارج

First Winner - Iranian Researcher Resident Abroad

Project Title:
Immunology and Cancer

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عنوان طرح:
سرطان و مصونیت

محقق:
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آمریکا

Abstract:

Several publications describe the presence of the human T cell lymphotropic virus type I (HTLV-I) in Jewish individuals born in Mash-had Iran. We report here the results of HTLV-I serological and genetic studies in the non-Jewish population of Mash-had as well as a neighboring area: Gonbad-Kavous. Seven hundred and seven serum samples from Mash-Had (694 healthy individuals and 13 patients with lymphoma) and 90 from Gonbad-Kavous were tested for HTLV antibodies by gelatin particle agglutination assay (PA) and confirmatory Western blots (WBs). Seropositive rates of 3.0% (21 of 694) in Mash-Had , 0% (0 of 90) in Gonbad-Kavous, and 100% (13 of 13) in lymphoma cases were observed. HTLV-I DNA sequence were amplified by PCR directly from the fresh PBMCs of seropositive individuals. Phylogenetic analysis of the viral DNA sequence indicated that the HTLV-I present in Mash-Had belong to the HTLV-I cosmopolitan clade. Altogether, these data indicate that Mash-Had, located in northeastern Iran, is a newly recognized endemic center for HTLV-I.