

عنوان مقاله:

Molecular typing of Leishmania major parasite in the main vector of leishmaniasis in Khuzestan by targeting the ITS-rDNA gene

محل انتشار:

هشتمین همایش بیوتکنولوژی جمهوری اسلامی ایران و چهارمین همایش ملی امنیت زیستی (سال: 1392)

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خلاصه مقاله:

Background & Objective: Leishmania major is an underlying agent of zoonotic cutaneous leishmaniasis in an endemic focus of Khuzestan. In this study, we diagnose Leishmania parasites by targeting of ITS-rDNA gene because there is no molecular typing and characterization which has been carried out on P. papatasi as a main vector of L. major yet. **Materials & Methods:** Sandflies were caught using sticky traps and light traps. After dissecting, sandflies were identified. DNA was extracted and ITS-rDNA gene of Leishmania in sandflies amplified by PCR methods and by RFLP and sequencing then using molecular software Leishmania major was definitively approved. **Results:** Among 1500 sandflies, 198 female P. papatasi were selected as gravid, semi gravid and fresh fed. DNA was extracted from all of them and the ITS-rDNA gene was amplified. About 8 percent of sandflies was infected with Leishmania parasites. After RFLP and sequencing samples Leishmania major was identified in all cases. **Conclusions:** The sequences results obtained in this study compared with similar cases recorded in the GenBank and confirmed.

کلمات کلیدی:

Leishmania major, Sandfly, Khuzestan, ITS-rDNA, PCR-RFLP

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