

### عنوان مقاله:

Frequency of MRPA, PGP gene in drug resistance in Leishmania tropica and Leishmania major

## محل انتشار:

كنفرانس بين المللي ژنتيک و ژنوميكس انساني (سال: 1400)

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#### خلاصه مقاله:

Backgrounds: The aim of this study was to investigate the presence of two PGP and MRPAEfflux pumps related to ABC transporters and investigate the frequency and function of twoMRPA (pgpa gene) and PGP (mdr) gene) pumps in drug resistance in clinical strains of Leishmania tropica and Leishmania major in cutaneos leishmaniasis and study of Leishmaniaresistance to antimony compounds. Materials and Methods: In this study, Fo volunteers with leishmaniasis were randomly selectedafter Sampling of wound with a light microscope amastigotes examining, then inoculated into aspecific two-phase NNN culture medium, Then DNA extraction was performed by phenolchloroformmethod and then primers were identified with specific primers in ITS region, and thefrequency of these two pumps involved in drug resistance was determined by PCR and specificprimers.Results: The results of the study of selected samples showed the frequency of mdr1 gene washigher than of mrpa gene. Conclusion: Probably the reason for the increase in the frequency of MDR pump compared toMRPA pump is the presence of MDR pump on the surface of plasma membrane, which transfersmaterials and drugs from the internal layers of the lipid bilayer membrane to the outer layers, reducing the concentration of the drug inside the cell and causing resistance. While the MRPApump is in the .cell organelle membrane

# کلمات کلیدی:

ABC transporter, Glucantim, Leishmaniasis, mdr) gene, pgpa gene

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