

عنوان مقاله:

MOLECULAR IDENTIFICATION OF WHIB7 EXPRESSION IN DRUG RESISTANT MYCOBACTERIUM TUBERCULOSIS

محل انتشار:

نوزدهمین کنگره بین المللی میکروب شناسی ایران (سال: 1397)

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خلاصه مقاله:

Background and Aim: One third of the world's population are infected by Mycobacterium tuberculosis. This bacteria has a family of genes called WhiBs, Their function is to induce the infection and establishment of bacteria within the cells. In this study, the expression of WhiB7 was discussed which leads to antibiotic resistance and produces MDR species. Methods: For this study 25 MDR and 25 sensitive species of Mycobacterium tuberculosis were collected then cultured on Lowenstein Jensen Medium (L.J), contains Rifampin, Isoniazid, Ethambutol. Afterwards, by Real Time PCR the expression of WhiB7 was compared among resistant and sensitive species, and then compared with the standard species called H37Rv. Results: Results of antibiogram showed all MDR species are resistant, at least, to two out of three drugs that were used in L.J Medium. Although the results of Real Time PCR indicated that WhiB7 expressed more in resistant species than sensitive ones, the results of statistical analysis, done by Rest and MWGA6 indicated that WhiB7 has shown no difference in expression among resistant and sensitive species, while both were down regulated in comparison to H37Rv. Conclusion: According to genesis of new resistant species of Mycobacterium tuberculosis, we can feel the need of new identification methods to prevent the emergence of new resistant strains. The main purpose of this study was to research the effect of WhiB7 expression in drug resistance.

کلمات کلیدی:

(Real Time PCR, Mycobacterium Tuberculosis, WhiB7 Gene, MDR TB (Multi Drug Resistant TB

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