

عنوان مقاله:

ANTIFUNGAL EFFECT OF EUGENOL EXTRACT AGAINST ASPERGILLUS FUMIGATUS

محل انتشار:

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

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خلاصه مقاله:

Background and Aim: *Aspergillus fumigatus* is an opportunistic pathogen in all parts of the world, which causes different clinical forms, including invasive Aspergillosis, in immunocompromised patients. In recent years, increased levels of resistance to antifungal drugs have been observed, so other treatments that are more effective and safer than new treatments are being studied, including the use of herbal extracts. **Methods:** The inhibitory effect of: Eugenol extract against was as *Aspergillus fumigatus* sensed by micro broth dilution (CLSI, M-38) methods in comparing with fluconazole. **Results:** The results showed that the minimum inhibitory concentration (MIC) of: Eugenol and fluconazole for fungi growth was 62.5 And 128 $\mu\text{g/ml}$ and MIC 50 for these compounds was 31.25 and 64 $\mu\text{g/m l}$, respectively. **Conclusion:** The results of this study showed that: Eugenol is an effective factor that inhibit *Aspergillus .fumigatus* growth and can be considered as a target for antifungal design methodology

کلمات کلیدی:

Eugenol, *Aspergillus fumigatus* MIC, Antifungal effect

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