

عنوان مقاله:

Detection of Candida species isolated from oral cavity of healthy persons by Polymerase Chain Reaction

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Introduction and Objectives: Candida species are a part of normal human microbial flora. They can cause dangerous infections in immunocompromised persons such as recipients of organ or tissue transplants. The most commonly Candida species are *C. albicans*, *C. glabrata*, *C. tropicalis*, *C. parapsilosis*, *C. guilliermondii*, *C. lusitaniae*, and *C. krusei*. Rapid detection of Candida species for prescribing appropriate antifungal drugs are necessary. The aim of this study was to detect of Candida species isolated from oral cavity of healthy persons by Polymerase Chain Reaction and ITS86-ITS4 primers. **Materials and Methods:** In this study, 72 different isolates of Candida obtained from oral cavity of healthy persons detected with PCR and by ITS86-ITS4 primers. **Result:** The primers used successfully amplified DNA from all tested Candida isolates. After amplification, products of 198 to 372 bp were obtained. Tested Candida included 22 *C. albicans* (30.56%) (282 bp), 7 *C. parapsilosis* (9.72%) (250 bp), 9 *C. glabrata* (12.5%) (360 bp), 17 *C. krusei* (23.61%) (294 bp), 9 *C. tropicalis* (12.5%) (270 bp), 6 *C. lusitaniae* (8.33%) (198 bp), 1 *C. guilliermondii* (1.39%) (320bp), 1 *C. Kefyr* (1.39%) (372bp). **Conclusion:** PCR by ITS86-ITS4 primers is a sensitive .technique for the rapid detection of Candida species isolated from oral cavity of healthy persons

کلمات کلیدی:

Candida spp, PCR, Molecular diagnosis, ITS86-ITS4

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