

Morphological and Molecular Identification of Dermatophytes Isolated from Patients in Erbil City

Hero Mohammad Ismael · Shna Ibrahim Ismail

Dep. of Biology - College of Science University of Salahaddin-Hawler / Iraq Kurdistan Region

Abstract:

From Rizgary Teaching Hospital in Erbil city, seventy samples including hair, nail, and skin were collected from patients with suspected dermatophytosis, of all age groups and of both sexes, during the period of 8th of December to 5th of March.

Among 70 patients examined, 32 (45.7%) cases were males and 38 (54.3%) cases were females, ranged in age from 11 months to 76 years.

The highest rate of dermatophyte infection was recorded at age group 21-40, which was 33 cases 47.1%, followed by age group 0-20, which was 20 cases 37.1%, then age group 41-60, which was 8 cases 11.5%, while the lowest rate of infection was observed at age group 61-80, which was 3 cases 4.3%.

Genomic DNA was extracted from all isolated samples (dermatophytes and *Candida* spp.) by using CTAB method, with high purity 1.7-1.8. The ITS regions from all extracted DNA were amplified by using ITS1/ITS4 primer set, for identification of dermatophytes and *Candida* species. The products were electrophoresed through 2% agarose gels in TBE buffer and visualized by staining with ethidium bromide under UV irradiation.

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