

MOLECULAR ANALYSIS OF *Absidia* ISOLATES BASED ON rDNA-ITS REGION

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Abstract

Absidia is a genus in the family Absidiaceae in the order Mucorales some species of which are causative agents of mucormycosis in humans and animals. To study phylogenetics and population biology of the genus and its species, some soil samples were collected from agricultural areas of Mazandaran. Following isolation and purification of isolate on Rose-bengal containing medium, 20 isolates of *Absidia* were obtained. DNA was extracted from using a CTAB method and subjected to PCR using the primers ITS4 and ITS5 and the amplified fragments were sequenced. The sequences were analyzed by Chromas Pro and MEGA5 softwares and compared with those deposited in GenBank. Dendrograms derived from the similarity of nucleotide sequences separated *Absidia repens* isolates, which formed a distinct clade, from the rest of the species.

Keywords: Absidiaceae, Biodiversity, Mazandaran, Phylogeny.

See Persian text for figures and tables (Pages ۴۴۷-۴۵۱).

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