

TITLE: ISOLATED KERATINOPHILIC FUNGUS IN PUBLIC EDUCATION INSTITUTIONS IN THE MUNICIPALITY OF COLONIA LEOPOLDINA, AL.

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ABSTRACT:

Keratophilic fungi are those that degrade keratin, this protein is found in the nails, hair and the outer epidermal layers of mammals. Fungi are transmitted to the human's body, usually through small wounds with vulnerable bodies of vegetable nature. The aim of the research was to identify keratinophilic fungi isolated from the soil of educational institutions and to indicate the prevalence of species on the soils of different institutions. Soil samples were collected from three schools located in the city of Colônia Leopoldina, which happened in two moments, one of which was collected in the rainy season and another in the dry period. Afterwards, they were processed for isolation, using the technique of Vanbreuseghem (1949), which consists in the isolation of fungi in manes. As the colonization in the mane emerged, the isolation of the fungus was carried out in the culture media. For the identification, microcultures were carried out from the isolated fungi using the Ridell technique. During the study period, 10 soil samples from each institution were analyzed, being 5 in the dry period and 5 in the rainy season, an occurrence of 16 (53.3%) positive soil samples from the institutions were observed, showing the development of fungal structures on horsehair pieces. The isolated genres were: *Fusarium* sp 62%, *Penicillium* sp 18,7% e *Aspergillus* sp. 6,2% e *Chrysosporium* sp 13,1% Among the frequency in the institutions, the Joaquim Luiz da Silva School presented 60% of fungal colonization, Elementary School Alfredo de Paula Cavalcante, 40% and Santo Antônio Day Care 60%. This research proposed to make a survey of the fungal biomass in the soils of these institutions, to obtain scientific data about the occurrence of keratinophilic fungi. With the intention of the well-being and health of the students who have direct contact with these soils, being exposed to the action of fungi causing superficial mycoses.

Keywords: Dermatophytes. Keratinophilic. Ground