

TÍTULO: STABLISHMENT OF A MICROBIOLOGICAL BANK WITH DIDATIC AND INDUSTRIAL INTEREST

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ABSTRACT:

The storage of biological material and related information are essential for understanding the biodiversity and their impacts, it is relevant data for public health, farming, processing industry, among other sectors. In this sense, the administration of a culture collections are very important not only to ensure the conservation and viability of such microbiological material, but also to provide access to its data in a efficiently way. Thus, the objective of this study is stablishing a bank of microbiological cultures (BIC) in the UTFPR/Ponta Grossa, following Standard Operational Procedure (SOP) established by Taxonline Workgroup to provide the effective maintenance of microbiological cultures outstanding didactic and industrial purposes. The managing rules consist in the signature collection during the deposit or withdrawal of such strain, being the movement of all lineages registered for certification purposes. A survey accomplished in the UTFPR/Ponta Grossa stated that approximately 50% of teachers belonging to two Departments (Food and Natural Science) provide information that supports the creation of the microbiological bank to manage strains used in their research or lectures. Of ten teachers from Food Department, five have microbiological lineages for deposit in the bank, seven already used biological strain in their class lectures, and once two of them already needed previously acquire strains from other research institutions. Among the six teachers from Natural Science Department involved in lectures regarding biological systems, just one preserves a strain available for deposit. The storage and sharing of information regarding the strains in an organized and systematized way will support the development of scientific researches, improving many processes related to several industrial and research areas, as health, pharmacy, food, beverages, agriculture and environment sectors.

KEYWORDS: microbiological cultures; data bank; knowledge management; Taxonline Workgroup.

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