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SYMPOSIA - MS4 Facing the Transition From Culture Collection to Biological Resource Centres

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Title

The microbial culture collections of the Federal University of Pernambuco (UFPE) and the new consortium towards the establishment of BRC-UFPE

Body

The UFPE from Recife in Brazil hosts a bacterial (UFPEDA) and a fungal (URM) collections since 1951 and 1954, respectively. The UFPEDA was established by Prof. Oswaldo Gonçalves de Lima and is register in WDCM as 114. It is hosted at Antibiotic Department (DA) of UFPE and started out with 200 species mainly of the genus *Streptomyces*. Nowadays this collection holds 4000 strains of actinomycetes isolated from all the Brazilian places and from the International *Streptomyces* Project (ISP). The URM – University of Recife Mycology was established by Prof. Augusto Chaves Batista and is register in WDCM as 604. Actual it holds 9000 identified species including 1400 yeasts and 7600 filamentous fungi. All major fungal taxonomic groups are cover by this collection. The collections preserve each strain at least by two different techniques. Water and mineral oil storage were used for long operation time while freeze-drying and freezing at -80 °C become the main techniques used at this stage. Special care is taken to test whether cultures recovered from preserved material conform to the original deposit. These collections have a range of services which are acceptance of free and confidential deposits, supply strains for academia, industry and services, support research and education (graduate and post-graduate students, as well as advanced training courses), identification services and confidential contracts (e.g. fungal medical diagnosis, starters for agro-industry companies, etc.). The OECD initiative related to guidance for the operation of Biological Resource Centres (BRC) is now a key reference for these collections. The right management of biological resources and their associate information including quality control are perused by these collections. The recent national projects, with reasonable budgets to support their activities, either on networking activities or requalification and management create a new breath and responsibilities to these collections. Taking advantage of good and well equipped premises of LIKA these collections are now open new avenues working in consortium to improve the quality control of their holdings using new tools from molecular biology and spectral analysis (MALDI-TOF) to achieve in the future a certified BRC for the UFPE microbial culture collections.

Keywords

Culture collections, BRC, Bacteria, Fungi, Quality control