

## Microbiological Collections of Paraná Network (CMRP/Taxonline)

Juliana Bittencourt<sup>2</sup>, **Vania Aparecida Vicente<sup>1</sup>**, Luciano Panagio<sup>3</sup>, Terezinha Svidzinski<sup>4</sup>, Luciane Marinoni<sup>1</sup>  
<sup>1</sup>Federal University of Parana, Curitiba, 81.531-980, Parana, Brazil, <sup>2</sup>Federal University of Technology, Ponta Grossa, 84017-220, Parana, Brazil, <sup>3</sup>State University of Londrina, 86057-970, Parana, Brazil, <sup>4</sup>State University of Maringa, 87020-900, Parana, Brazil

The Center of Microbiological Collections of Paraná Network Taxonline (CMRP/Taxonline) was created in 2012 as part of the Network of Biological Collections of Paraná - Taxonline (<http://taxonline.bio.br>), with financial support from the Fundação Araucária agency of Parana State (FA), Ministry of Science, Technology and Innovations (MCTI) and National Council for Scientific and Technological Development (CNPq). The CMRP/Taxonline concentrates the microbiological collections from the Federal University of Paraná (UFPR) and associated laboratories from the State University of Maringá/PR (UEM), Federal Technological University of Paraná (UTFPR) and State University of Londrina/PR (UEL), under unified operational protocols for biosafety and collection management, with head laboratory housed at the UFPR. The center acts as depository for academic and research collections in the Parana and several institutions in other Brazilian regions, providing services on conservation of clinical and environmental species strains (types and references) of bacteria, filamentous fungi and yeasts for academic and biotechnological applications. In a recent expansion the center incorporated the collections of mammalian cells and plasmid DNA. The CMRP/Taxonline was created with the aim of ensuring the preservation of microbiological material from academic activities, attending the governmental goals for the preservation of Brazilian biodiversity and current legislation regarding compliance with the Nagoya protocol ([https://www.cbd.int/abs/nagoya\\_protocol/signatories/default.shtml](https://www.cbd.int/abs/nagoya_protocol/signatories/default.shtml) - Law nº 13.123, "Biodiversity Law"). The CMRP/Taxonline follow the minimum organizational criteria for preservation, identification and cataloging of microbial cultures in accordance with the recommendations of the General Coordination of Accreditation of Inmetro (Cgcre) (<http://www.inmetro.gov.br/credenciamento>). Through the Taxonline Network (<http://taxonline.bio.br>), the CMRP collections became part of the Brazilian Biodiversity Information System /SIBBR (<http://www.sibbr.gov.br>) and of Global Biodiversity Information Facility (<http://www.gbif.org>), with databases implemented in SpeciesLink ([splink.cria.org.br](http://splink.cria.org.br)). The CMRP/Taxonline is a member of the World Federation for Culture Collections - WFCC ([https://wfcc.info/home\\_view](https://wfcc.info/home_view)) and brings together species of clinical and biotechnological interest with access to databases such as Mycobank to deposit fungal types of strains, it offers open and restricted deposits, with molecular ID of strains. In early 2020, the Taxonline Network has been recognized as a NAPI (New Research and Innovation Arrangement) inside the system of the Science and Technology in Paraná characterized by a new incentive provided by the state development agency, Fundação Araucária (FA). In this way, the CMRP/Taxonline became a consolidated network as a reference collection which has been attracting resources, providing unified infrastructure and protocols among associated laboratories, and offering courses and training in taxonomy and cultures conservation.