

INFORMATION SYSTEM IN THE CULTURE COLLECTIONS OF FUNDAÇÃO OSWALDO CRUZ



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INTRODUCTION

The management module of the Information System for Collections of Biotechnological Interest (SICol) has been adopted by culture collections at the Fundação Oswaldo Cruz (Fiocruz). The SICol Network has been developed by the Centro de Referência em Informação Ambiental (CRIA) and was launched in May 2002 integrating information from different culture collections in a centralized online information system. Through the project SICol 4 – FINEP: Biological Resources Center Network for Conformity Assessment of Biological Material (2006-2008), the first culture collection at Fiocruz to have the management module of SICol running, was the *Leishmania* Collection of Instituto Oswaldo Cruz (CLIOC). Having this culture collection as a model, through another project (MCT/FINEP/Ação Transversal – MODERNIT – 03/2006), SICol was adopted by another five culture collections at Fiocruz. These collections required new features and therefore more support for SICol's further development. With the expansion of the project [Project SICol 5 - FINEP: Biotecnologia – Expansão do SICol (2009-2011) - *Implementation and Structuring the Biological Resource Center in Health and Environment of Fundação Oswaldo Cruz.*], these five original collections together with another five, all from Fiocruz, got resources in order to continue this work.

OBJECTIVES

- To integrate information from different culture collections;
- To facilitate access to information regarding biological material deposited in the collections;
- To improve the quality of the services provided by the collections, enabling them to act as a Biological Resources Center.

WORK STAGES

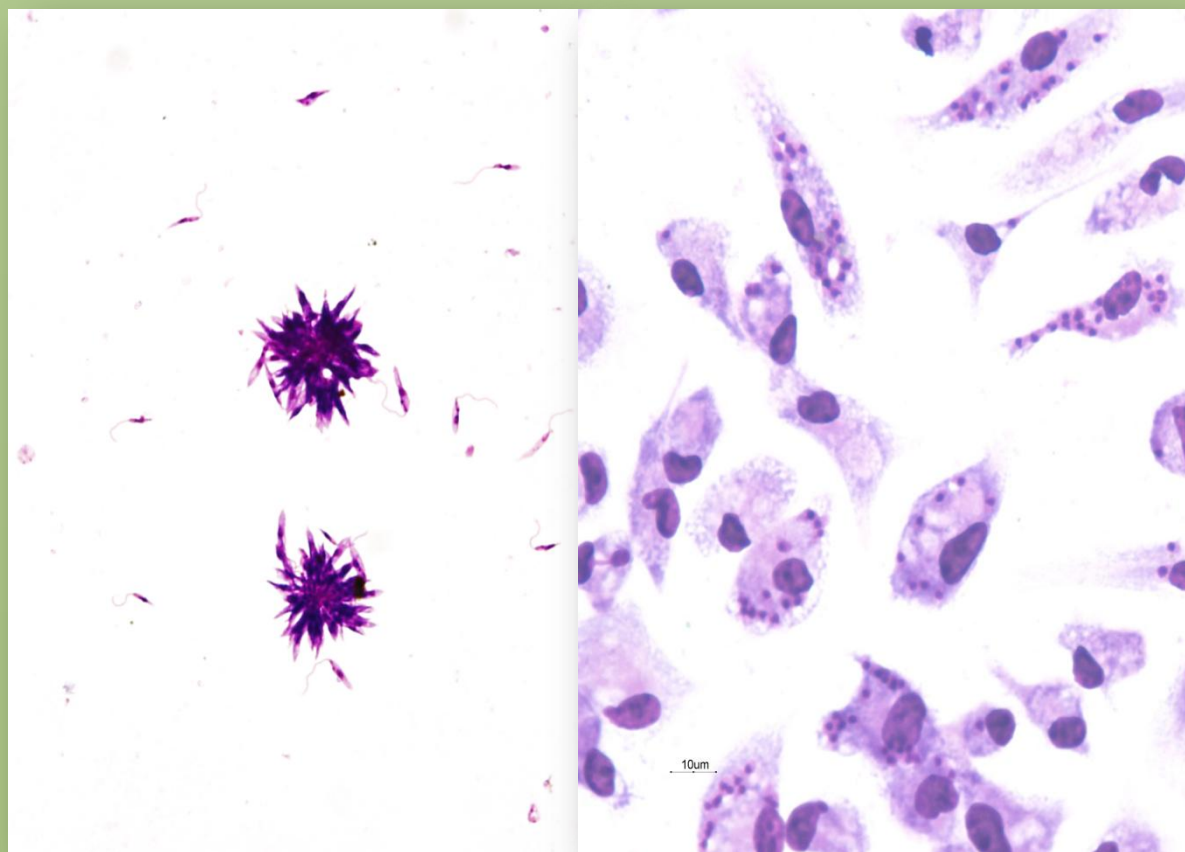
1. Reorganization of strain data in single worksheets to facilitate their insertion into SICol's online network;
2. Registration of the collection at SICol;
3. Configuration stock control;
4. Construction of websites;
5. Configuration of online catalog.

RESULTS

- All eleven culture collections are now integrated through the Fiocruz-BRC Network: Fungi, protozoa and bacteria.



Aspergillus parasiticus
Credit: Collection CMT/ Fiocruz



Leishmania (V.) guyanensis
Credit: Collection CLIOC/ Fiocruz

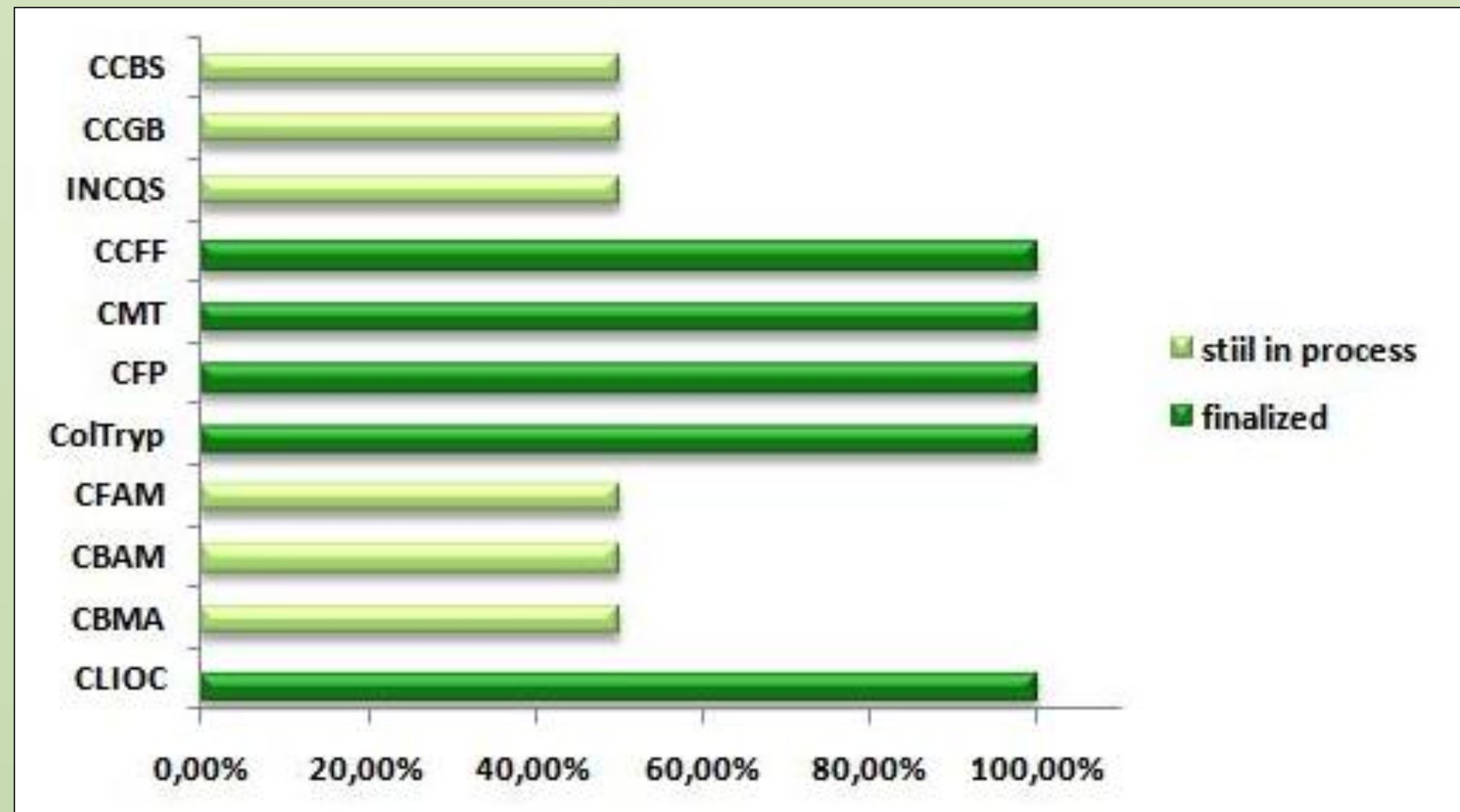


Bacillus sphaericus
Credit: LFB/IOC/FIOCRUZ

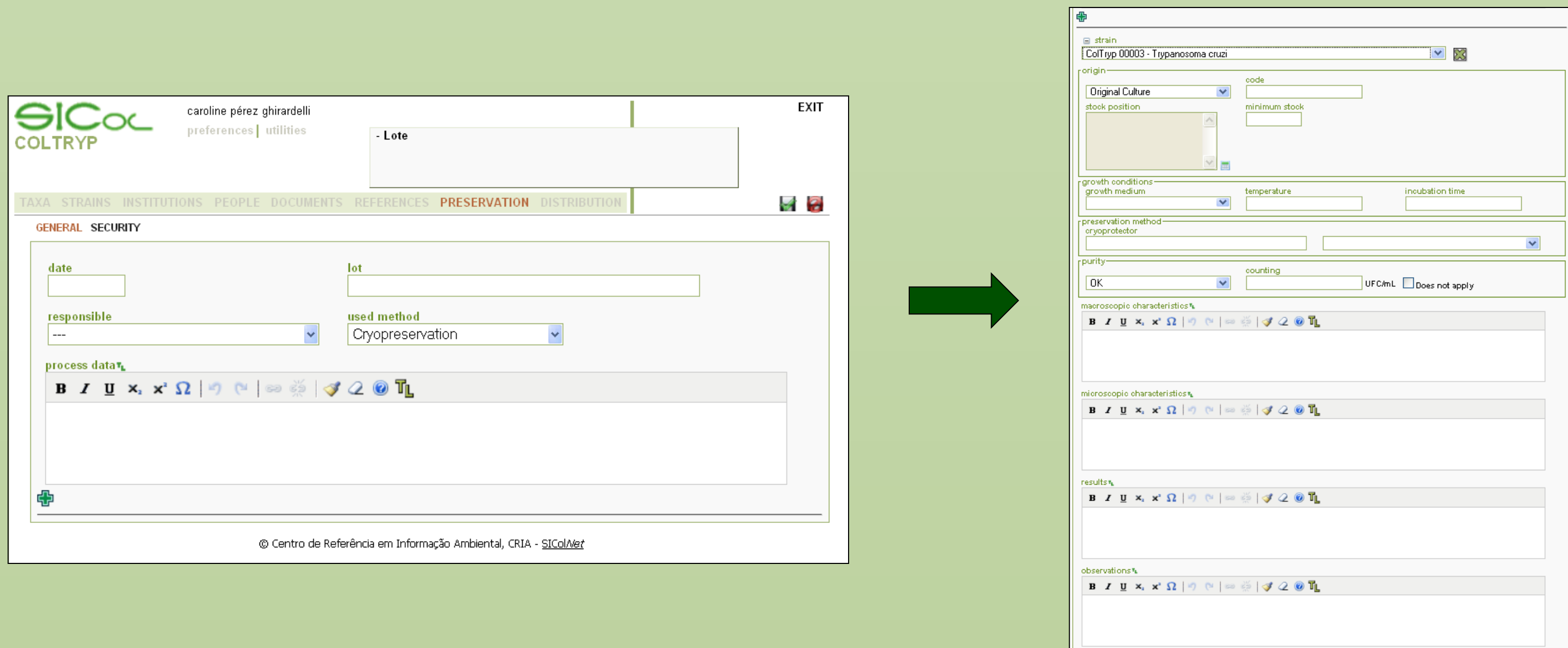
- **CLIOC** - *Leishmania* collection of the Oswaldo Cruz Institute
- **ColTryp** - Collection of *Trypanosoma* from Wild and Domestic Mammals and Vectors
- **CFP** - Collection of Pathogenic Fungi
- **CMT** - Mycological Collection of Trichocomaceae
- **CCFF** - Culture Collection of Filamentous Fungi
- **INCQS** - Reference Microorganism Collection the INCQS
- **CFAM** - Collection of Fungi from Amazon
- **CBMA** - Bacteria Collection of the Atlantic Forest
- **CBAM** - Collection of Bacteria from Amazon
- **CCBS** - Bacterial Culture Collection of Health Importance
- **CCGB** - Culture Collection of *Bacillus* and Related Genera

1 – 2. All collections are organized and registered in SICol.

3. Present situation of the configuration stock control in each collection:



Examples of data entry for stock control:

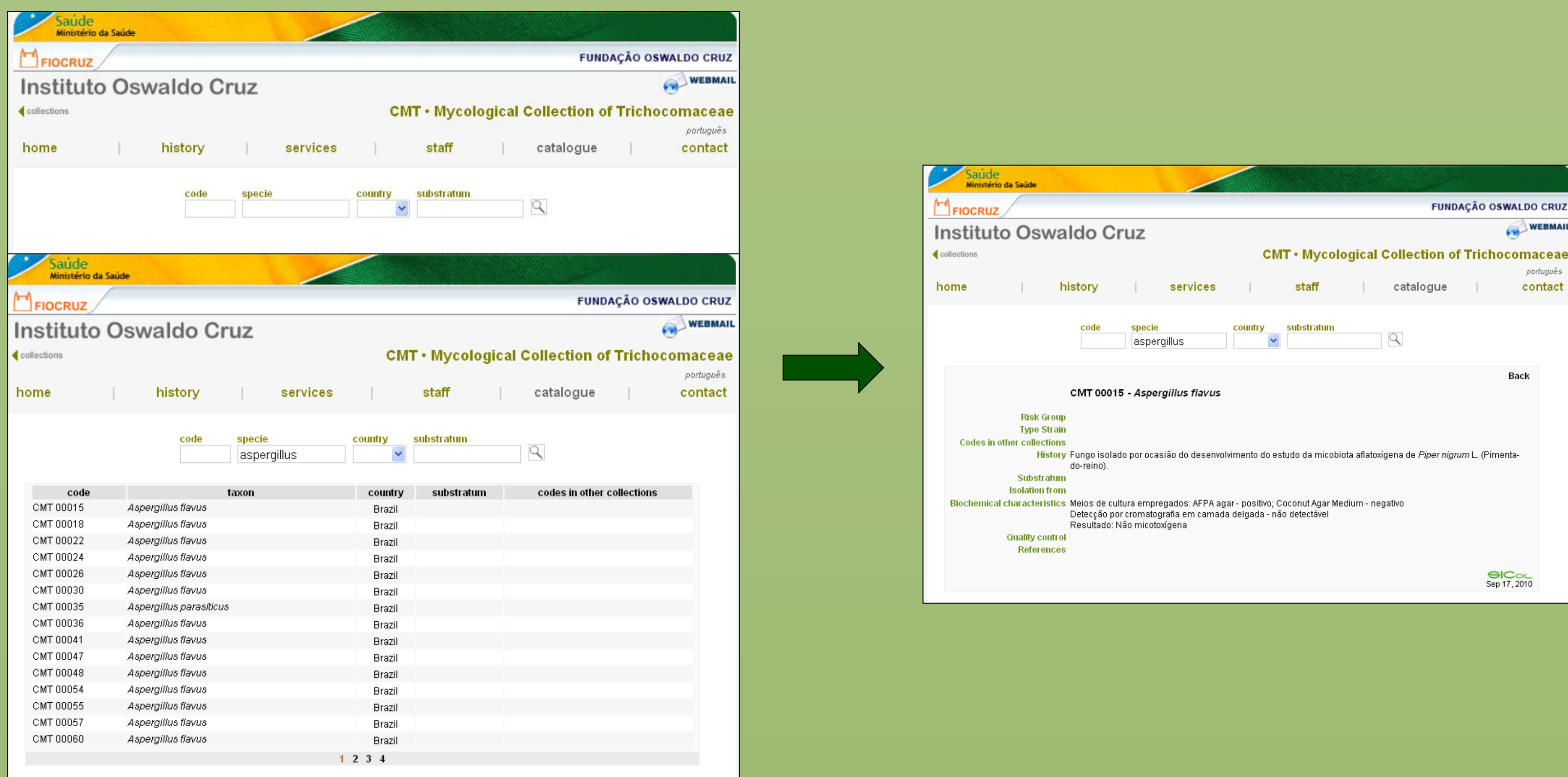


4. All but one collection have websites available on the main webpage of Fiocruz:



5. From the eleven collections, three have the catalog configured and already available online: CLIOC, ColTryp and CMT.

Examples of CMT:



CONCLUSIONS

The stock control of CCBS, CCGB, INCQS, CFAM, CBAM and CBMA collections is being configured and will be finished briefly.

The final stage of this project is to have the catalogs online, which have been prepared through specific configurations for each collection.

The SICol system will help to improve the quality of the services provided by these collections, enabling them to act as a Biological Resources Center. The system is also being designed to permit the integration of non sensitive data with other international information systems.

SUPPORTED BY

