



# **Implementation of computerized process and a management system at the Leishmania Collection of the Oswaldo Cruz Institute [Colecção de Leishmania do Instituto Oswaldo Cruz] – CLIOC**



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► CLIOC was created in 1980 with the support of the Oswaldo Cruz Institute, the Oswaldo Cruz Foundation and the World Health Organization.

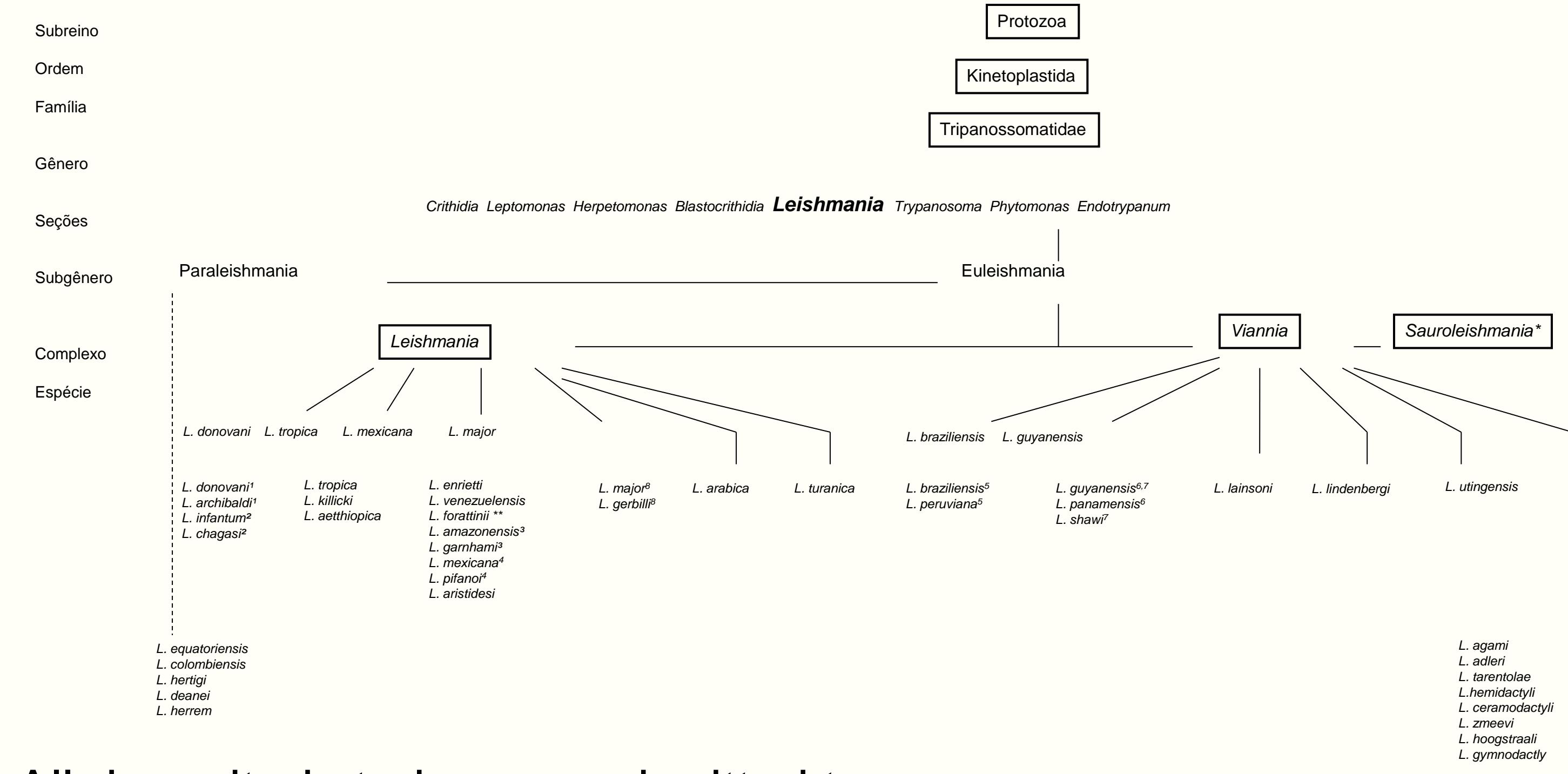
➤ CLIOC is registered with the World Federation for Culture Collections (WFCC- WDCM 731).

# ► CLIQC is a partner of the demonstration project for a Global Biological Resource Centre Network.

# The ABC of BRCs:

- Authentication process for biological material
  - Best practice in preservation
  - **Confirmed, validated information** ➤

- CLIOC received more than 3,000 samples for deposit and/or characterization and today has more than 1,000 strains available, representing two sections, three subgenera and about 30 species.



- All deposited strains are submitted to biochemical identification. Biological and molecular characterizations have also been conducted through research projects, lead by CLIOC or by other research groups.

**SAIR**

**LIOC**

carlos henrique martins da silva  
preferências

**IOCL 0566**  
*Leishmania (Viannia) (Euleishmania) braziliensis*

**LINHAGENS INSTITUIÇÕES PESSOAS DOCUMENTOS REFERÊNCIAS PRESERVAÇÃO DISTRIBUIÇÃO**

GERAL COLETA ISOLAMENTO IDENTIFICAÇÃO DEPÓSITO CULTIVO CARACTERÍSTICAS PROPRIEDADES CQ ESTOQUE SEGURANÇA

**morfológicas**  
moleculares

Link GenBank: [AB434682](#)  
**EF060199.1**  
**U53826.1**  
**U19888.1**  
**AY722724.1**  
**AY099301.1**  
**AF153838.1**  
**AF056082.1**  
**U94967.1**  
**U94966.1**  
**FJ817491.1**  
**AB434682.1**  
**FJ525408.1**  
**DQ522039.1**  
**DQ836162.1**  
**EF060200.1**  
**M87878.1**  
**AJ851017.1**  
**AJ851016.1**  
**AJ851015.1**  
**MLST\_6aa**  
**MLST\_G6P**  
**MLST\_ICD**  
**MLST\_MPI**  
hsp70 Protocolo 1 - IOCL 566

**bioquímicas**  
Zimodema: IOC/Z:27

**Alelos MLEE**  
imunológicas  
patogênicas  
genotípicas

**ogram**  
grupo  
Desconhecido

**comentários**  
ptbr:  
en:

**risco biológico - comentários**  
ptbr:  
en:

**restrições**  
ptbr:  
en:

**imagens**  
ptbr:  
en:

**referências (links etc.)**  
ptbr:  
en:

**observações adicionais ao catálogo**  
ptbr:  
en:

CLIOC is now fully computerized through this system, and is able to register a wealth of information about the samples collected, including biological (e.g. growth curve, *in vitro* sensibility to antimonial, infectivity, virulence), biochemical (e.g. isoenzymatic pattern, proteomic), molecular (e.g. DNA sequences, gene expression), clinical and ecological traits.

# Supported by

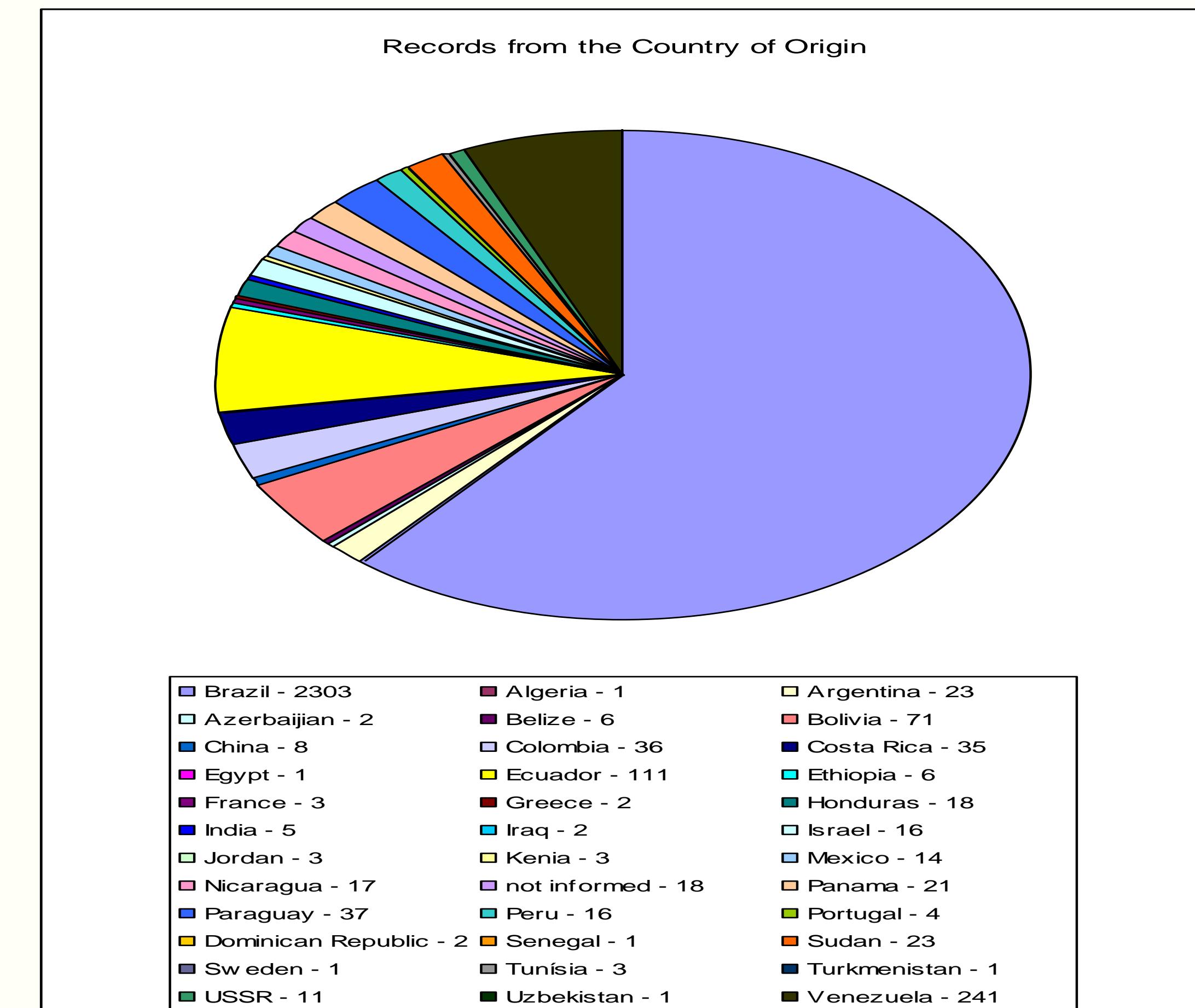


Stock control and strain distribution management are also covered by Sicol.

# From culture collection to BRC

Here we describe the computerization process adopted at CLIOC by using a management system 

➤ These strains came from many localities and different hosts, most from South America.



- A constant concern of this collection has been with epidemiological data associated with the strains collected.

**Saúde**  
Ministério da Saúde  
**FOICRUZ**

**Instituto Oswaldo Cruz**

◀ collections

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**Leishmania Strain Characterization and/or Deposit Request**

**Type of Request \***

Characterization with Deposit  Characterization without Deposit

**Depositor Information**

**Full Name \***

**Institutional Link \***

**Laboratory \***

**Department \***

**Institution \***

**Complete Address \***

**Phone/Fax \***

**Email \***

**Strain Information**

**Strain/Code \*** (Source laboratory and/or other collection)

**Isolated from \* (host)<sup>1</sup>**

**Clinical Form<sup>1</sup>**  
 VL  CL  ML  Diffuse  Disseminated

**Local of Isolation (geographic region) \***

**Date of Isolation \***

**Method of isolation<sup>1</sup>**

**The isolation was done<sup>1</sup>**  
 before at the start of treatment  after at the start of treatment

**The isolation refer to<sup>1</sup>**  
 first isolation of this host  a repeated injury  a primary injury  a secondary injury

**The strain was isolated from<sup>1</sup>**  
 CL biopsy  aspirade of CL  bone marrow  linfo-node  others (specify):

**Was used some method diagnosis before or after the isolation of the strain? \***  
 Serological  Molecular  Lamina Imprint  Other: Please specify the used methodology and the obtained results:

**The sample has already been characterized? \***  No.  Yes.  
**If yes, describe the method and the final result**

**Supplementary Informations**

**Medium of cultivation recommended \***

**Type of deposit \***  Open<sup>2</sup>.  Restrict<sup>3</sup>.  Closed<sup>4</sup>

**Sent as<sup>5</sup>** \*  Culture (Describe the medium)  Cryopreserved sample (Describe the conditions)  extract (Characterization only)  Other (Describe)

**Specifications**

**Other information**

**Registration or ID \***

8. The samples are preserved in 8% glycerol solution with liquid media supplemented with 20% of Fetal Bovine Serum.  
9. The Veracity of Information contained in this Form are the Sole Responsibility of the Depositor/Requestor of Service, Exempting the CLIOC.

CLIOC is also partially georeferenced and connected to the *speciesLink* network, aiming to help predictive studies on *Leishmania* species and genotype dispersion.

