



MEETING ABSTRACT

Open Access

# Development of HTLV-1 Database for data management and datamining HTLV-1 sequences

Thessika H A Araujo<sup>1\*</sup>, Leandro I Souza-Brito<sup>2</sup>, Pieter Libin<sup>3</sup>, Anne-Mieke Vandamme<sup>3</sup>, Koen Deforche<sup>3</sup>, Bernardo Galvao-Castro<sup>1,2</sup>, Luiz C Alcantara Jr<sup>1,2,4\*</sup>

From 15th International Conference on Human Retroviruses: HTLV and Related Viruses  
Leuven and Gembloux, Belgium. 5-8 June 2011

Scientific development had generated a great amount of data that should be stored and managed, in a way, that the users have access to the complete data of interest. The amount of HTLV-1 not related data that had been generated warrants the designing of a database that would be able to put together a greater number of virus data: as epidemiological and environmental aspects, to give support to the inferences about infection, pathogenesis, origin and, principally evolutionary dynamics. All the data was obtained from papers available at GenBank or through contact with the authors. All collected data was organized using the PostgreSQL, and are accessed and managed through the RegaDB: a Viral Data and Analysis Management Environment. We, currently, have 1,972 registered sequences which 23.5% are complete genome and 76.5% are partial genome (Sequences corresponding to LTR, gag, env and pX regions). In relation to clinical status we have collected information for 42.70% of the sequences, and 39.54% of them were obtained from viral isolates of TSP/HAM individuals, while 21.14%, 33.01% and 6.31% of them, were obtained from ATL patients, asymptomatic and other infections, respectively. We also have reports of gender and age in 12.38% and 9.33% of the sequences, respectively. Nowadays, we are dedicating ourselves to the preparation of an interface to permit the access of exterior users, and to the test of the tool utility, and finally to the web publication.

#### Author details

<sup>1</sup>Advanced Public Health Laboratory, Gonçalo Moniz Research Center, Oswaldo Cruz Foundation, Salvador, Bahia, Brazil. <sup>2</sup>HTLV Center/ Bahia School

\* Correspondence: lalcan@bahia.fiocruz.br

<sup>1</sup>Advanced Public Health Laboratory, Gonçalo Moniz Research Center, Oswaldo Cruz Foundation, Salvador, Bahia, Brazil

Full list of author information is available at the end of the article

of Medicine and Public Health/Bahia Foundation for Science Development, Salvador, Bahia, Brazil. <sup>3</sup>Rega Institute for Medical Research, Katholieke Universiteit Leuven, Leuven, Belgium. <sup>4</sup>National Cancer Institute, National Institute of Health, Bethesda, MD, USA.

Published: 6 June 2011

doi:10.1186/1742-4690-8-S1-A79

Cite this article as: Araujo *et al.*: Development of HTLV-1 Database for data management and datamining HTLV-1 sequences. *Retrovirology* 2011 **8**(Suppl 1):A79.

Submit your next manuscript to BioMed Central  
and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at  
[www.biomedcentral.com/submit](http://www.biomedcentral.com/submit)

