

ProtozoaDB: comparative genomics approaches for the study of protozoan species

Alberto M. R. Dávila

Instituto Oswaldo Cruz, Pólo de Biologia Computacional e Sistemas
(<http://www.pbcs.fiocruz.br>)- Fiocruz

ProtozoaDB (<http://protozoadb.biowebdb.org>) has been developed to initially host both genomics and post-genomics data from *Plasmodium falciparum*, *Entamoeba histolytica*, *Trypanosoma brucei*, *T. cruzi* and *Leishmania major*, but will also host other protozoan species as more genomes are sequenced or new sequences deposited at GenBank. It is based on the Genomics Unified Schema and offers a modern Web-based interface for user-friendly data visualization and exploration. Protozoan orthologs have been identified and are being explored as potential markers for genotyping, aiming to develop and validate a multiplex PCR assay (MLST) for the genotyping of samples deposited in the Trypanosomatid and *Leishmania* collections of the Oswaldo Cruz Institute (Fiocruz). Those orthologs will also help us to infer the evolution of protozoan species using a phylogenomic-based approach.