Highlights

All Sites
- interpro protein domains
- attach comments to genes and sequences
- easier access to queries via a global overview table
- save the results of your searches for later retrieval

EuPathDB
- gene, genome, EST & ORF queries spanning all component databases
- ortholog relationships and metabolic pathway maps spanning all supported organisms
- BLAST against all apicomplexan data, including *Theileria* genomes and ESTs from multiple species
- access to additional relevant sites, including GeneDB and NCBI apicomplexan resources

CryptoDB
- genes and genomes for *C. parvum*, *C. hominis*, and *C. muris*
- annotation updates to the published *C. parvum* gene models
- gene expression evidence from EST and proteomic analysis

CryptoDB

GiardiaDB
- genes and annotation for the *G. lamblia* genome
- phylogenetic trees with conserved proteins
- gene expression evidence from EST alignment, SAGE tag, microarray and proteomics experiments

GiardiaDB

PlasmoDB
- genes and genomes for six *Plasmodium* species
- SNP and CGH polymorphism data for multiple *P. falciparum* strains; comparison with *P. reichenowi*
- experimental and predicted protein-protein interactions
- cross- species genome synteny and orthologous proteins
- EST for multiple species; Microarray expression and/or proteomics data for *P. falciparum* and rodent malarial parasites

PlasmoDB

ToxoDB
- complete annotation and computational predictions for representative type I, II and III strains (GT1, ME49, VEG)
- sequence alignment of *T. gondii* strains and *Neospora caninum*
- EST, microarray and proteomics data supporting gene expression
- whole-genome analysis of chromatin marks

ToxoDB

TrichDB
- genes and annotation for the *T. vaginalis* genome
- identification of repetitive genes
- more than 90,000 ESTs aligned to genome provide expression evidence and validate gene models

TrichDB

Help extend the value of your community database ... contribute comments and experimental data to EuPathDB.

Add value to your large-scale genome analyses by placing them in context with others. We currently support genomic, microarray, proteomic, EST, SAGE-tag, SNP and metabolic pathway data sets for *Cryptosporidium*, *Giardia*, *Plasmodium*, *Toxoplasma*, and *Trichomonas* species, and will work with you to integrate your data. Please contact your representative database at the email address below to begin the submission process.

Share comments on individual genes with others. If you have a confirmation or suggested change to a gene structure, its expression or its function, please visit the relevant Gene Page and submit a comment. Your comments will be displayed on the Gene pages in the Annotation section and forwarded to genome curators if changes in annotation are required.

Information on annual EuPathDB training workshops can be found at:

http://eupathdb.org/workshop/

Examples of questions that can be addressed using EuPathDB can be found at:

http://eupathdb.org/workshop/2008/

The component database sites can be accessed directly at:

http://CryptoDB.org, *http://GiardiaDB.org*, *http://PlasmoDB.org*, *http://ToxoDB.org*, *or* *http://TrichDB.org*.

Each website has a link at the bottom of the page for contacting EuPathDB staff; you may also send e-mail to:

help@EuPathDB.org

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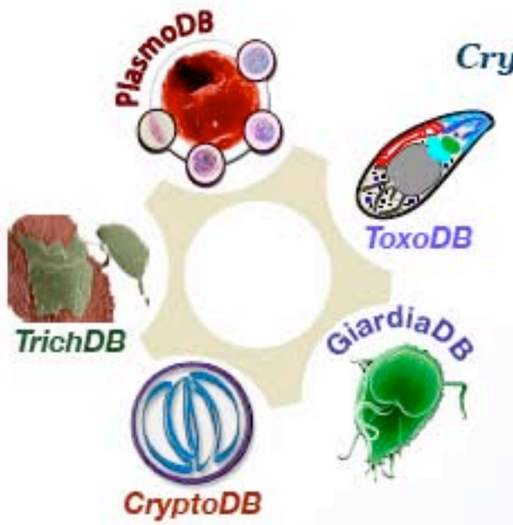
EuPathDB

Eukaryotic Pathogen Database Resources



Cryptosporidium
Trichomonas
Plasmodium
Toxoplasma
Giardia

EuPathDB provides a unified entry point for the Eukaryotic Pathogen Bioinformatics Resource Center (BRC) integrating the database resources of CryptoDB.org, GiardiaDB.org, PlasmoDB.org, ToxoDB.org, and TrichDB.org.

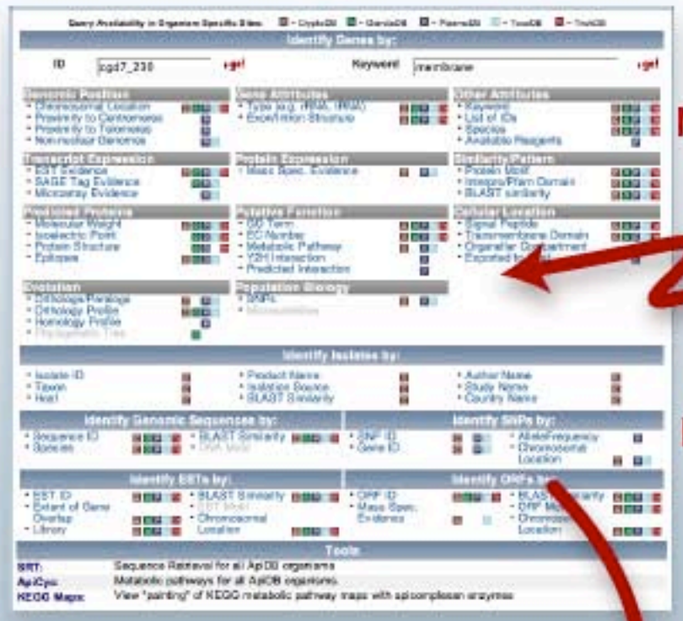
Eukaryotic Pathogens encompass numerous pathogens including *Giardia*, *Trichomonas*, the *Plasmodium* parasites responsible for malaria, and the AIDS-related pathogens *Cryptosporidium* and *Toxoplasma*.

Using the **EuPathDB** site, scientists may explore the genomes and genomic-scale datasets available for these species, formulate complex biological queries, and link to additional resources.

... Coming Soon!

We are pleased to announce that the kinetoplastida (*Leishmania*, *Trypanosoma brucei* & *Trypanosoma cruzi*) will be joining the EuPathDB family of functionally-integrated databases.

Look for the first draft release of TrypDB in January 2009



A oomplete list of all queries and tools for EuPathDB, GiardiaDB, TriohDB, CryptoDB, PlasmoDB, and ToxoDB. Query against protein domains, expression patterns, SNP oontent, gene struoture, and more.

Quick Navigation

BLAST & KEGG Map Tools

User Login

Community

Help

Query History

List of Genomes in EuPathDB

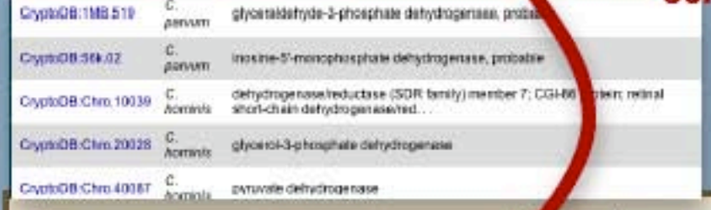
Simple Searches for Genes

BLAST Genome, ESTs & ORFs

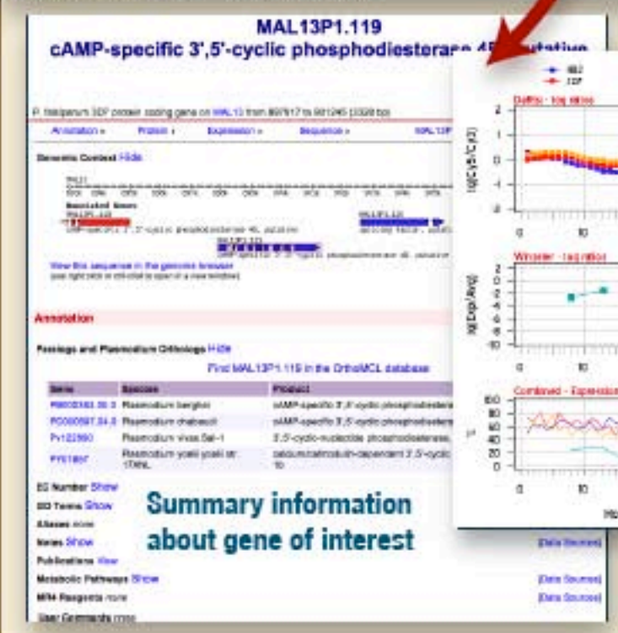
Keeps traok of all of the queries you run so you oan oombine the reults to ask more oomplex questions. Your gene lists may be stored for retrieval whenever you log in.

Download or Review Query Results

Download a list of genes, ORFs, or SNPs that you oan put into an Exoel spreadsheet or browse speoies-speoifio information.

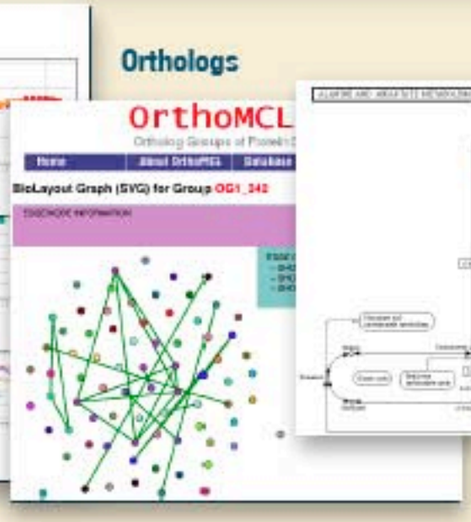


List of all genes in all speoies matohing query oriteria.



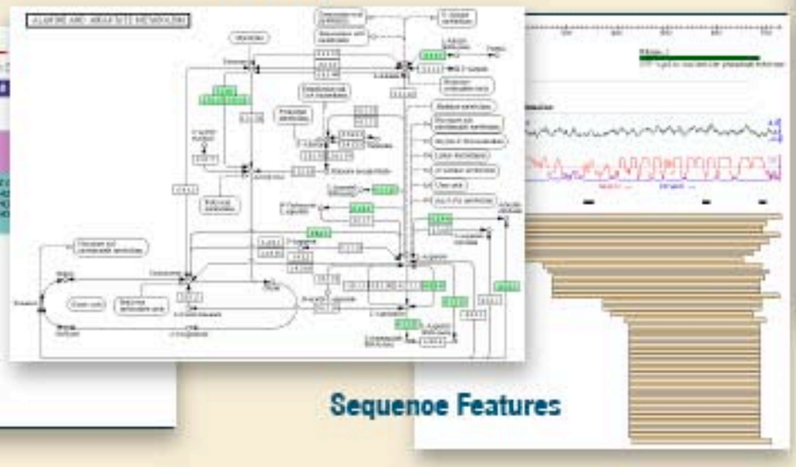
Summary information about gene of interest

Orthologs

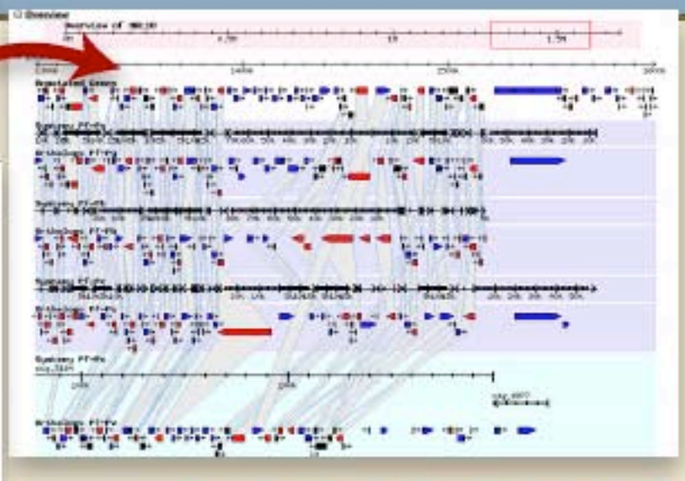


Expression Profiles

Pathways



Sequenoe Features



View genes and syntenio genes as well as all other sequenoe annotation inoluding SNPs, ohip oligos, and ESTs.

Species-Specific Gene Annotation in All Organism Databases