

Anatomy of the FungiDB home page

The Eukaryotic Pathogen Bioinformatics Resource Center (<http://EuPathDB.org>) is comprised of a family of bioinformatics resources including an integrated functional genomics database for fungi and oomycetes – FungiDB (<http://FungiDB.org>). FungiDB is a free online resource for data-mining and functional genomics analysis. It provides an easy-to-use, interactive interface to explore genomes, annotation, functional data (transcriptomics or proteomics), metabolic pathways and results from numerous genome wide analyses (ie. InterPro scan, signal peptide and transmembrane domain predictions, orthology, etc.). FungiDB contains an expanding number of genomes from species spanning the Oomycetes and Fungi groups including but not limited to plant, animal, and human pathogens.

The modules presented here are designed to introduce you to FungiDB resources and teach you how to construct basic and complex search strategies (in silico experiments).

Navigate to <http://fungidb.org/>. The homepage contains four main areas:



1. The header: provides quick access to Gene ID or Gene Text Search

The header section offers quick access to the Gene ID and Gene Text Searches and a list of useful links. To quickly navigate to a specific gene record page, enter a single Gene ID into the Gene ID search box at the top of the main page. Alternatively, searching for chromatin in the Gene Text Search box adjacent to the Gene ID search box will return a list of genes from fungal and oomycete organisms that have matches to the searched term in any of the following gene fields:

- enzyme commission (EC) description,
- Gene ID,
- Gene notes,
- gene product,
- gene name,

- gene ontology (GO) terms and definitions,
- metabolic pathway names and descriptions,
- phenotype, protein domain names and descriptions,
- PubMed, and user comments.

The links located directly under the search boxes provide quick access to information about the FungiDB project, login and registration, social media links, YouTube tutorial channel, and the Contact Us email form. All support inquiries can also be sent to help@fungidb.org.

2. Menu bar (in grey): stays with you throughout your searches and contains links to essentially all resources available on FungiDB. Both the header and menu bar stay with you throughout the site.
3. Left panel: connects you to the news, tutorials, workshop schedules, and other useful information.
4. The central navigation section is the main portion of the homepage containing three panels where you can initiate gene searches based on different attributes (Search for Genes), or search data types such as metabolic pathways and compounds, *etc.* (Search for Other Data Types), or use tools such as the Sequence Retrieval tool to export DNA and protein sequences of a gene or a list of genes, BLAST, *etc.* (Tools).