

# Anatomy of the *Candida* Genome Database (CGD) Homepage

The *Candida* Genome Database (CGD, <http://www.candidagenome.org>) is a freely available online resource that provides gene, protein and sequence information for multiple *Candida* species, along with web-based tools for accessing, analyzing and exploring these data. CGD contains information about genes and proteins; descriptions and classifications of their biological roles, molecular functions, and subcellular localizations; gene, protein, and chromosome sequence information; tools for analysis and comparison of sequences; and links to literature information.

The CGD homepage (<http://www.candidagenome.org>) is organized similarly to the SGD homepage. It can be broken down into three main sections:

## 1. Main toolbar

The screenshot shows the CGD homepage layout. An orange arrow points from the '1. Main toolbar' label to the yellow navigation bar. Another orange arrow points from the '2. Search box' label to the search input field. A third orange arrow points from the '3. News & Media' label to the 'New and Noteworthy' section.

**CGD Candida Genome Database**

About Site Map How to Cite Help

search our site

Home Search GBrowse JBrowse Sequence GO Tools Literature Download Community

**New and Noteworthy**

***C. lusitanae* strain CBS 6936 sequence and BLAST datasets now available at CGD**

The sequence and annotation of *C. lusitanae* strain CBS 6936, described in Durrens *et al.* (2017), has been made available at CGD. We provide downloads for sequences, chromosomal features, gff files and protein domain predictions. In addition, *C. lusitanae* CBS 6936 is included among the datasets searchable by our multi-species BLAST tool. The sequence and annotation were obtained by CGD from NCBI. (Posted February 27, 2018)

**CGD Curation News**

- *C. albicans* Genome Snapshot.
- *C. glabrata* Genome Snapshot.
- *C. parapsilosis* Genome Snapshot.
- *C. dubliniensis* Genome Snapshot.
- New papers added to CGD this week.
- View Genome-wide Analysis papers in CGD.

**JBrowse Conservation Tracks**

CGD has added tracks in JBrowse showing the evolutionary conservation of genomic features for *C. albicans* SC5314, *C. glabrata* CBS138, *C. dubliniensis* CD36, and *C. parapsilosis* CDC317. Conservation is shown in four optional quantitative tracks, representing increasing levels of evolutionary diversity. In general, the top level (derived from an alignment of 3 closely related species) will show the highest levels of conservation, and include intergenic regions, while the lowest level (derived from an alignment of 12 distantly-related budding yeasts) will

**About CGD**

This is the home of the *Candida* Genome Database, a resource for genomic sequence data and gene and protein information for *Candida albicans* and related species. CGD is based on the *Saccharomyces* Genome Database and is funded by the National Institute of Dental & Craniofacial Research at the US National Institutes of Health.

**Meetings & Courses**

- 14th ASM Conference on Candida and Candidiasis  
Providence, Rhode Island, USA  
April 15 - 19, 2018; Abstract submission deadline: February 2, 2018
- Fungal Pathogen Genomics  
Hinxton, Cambridge, UK  
May 13 - 18, 2018; Application deadline: February 2, 2018
- Harnessing Diversity to Understand Molecular Mechanisms, Pathogenicity, and Fungal Factories - Gordon Research Conference  
Holderness, New Hampshire, USA  
June 17 - 22, 2018; Applications must be submitted by May 20, 2018.

## 2. Search box

## 3. News & Media

1. The **main toolbar** organizes CGD's key pages, tools, and resources into the categories shown above. Mousing over each category reveals a dropdown menu with options within each category. This toolbar is accessible from most CGD pages.
2. The **search box** is located above the main toolbar on the right side of the page. It enables searching for key types of data, including gene names, Gene Ontology (GO) terms, references, phenotypes, biochemical pathways, orthologs, and more. Hitting Enter/Return after typing in your query will take you to a disambiguation page, where you can select a category of data within various *Candida* species or other areas of CGD to narrow your search results. Typing into the search box without hitting Enter/Return populates a list of suggested hits.

3. The **news & media** section lists important updates for CGD users, such as curation projects, new data, and new tools. On the left side of the homepage, conferences and courses relevant to yeast researchers are listed.

In the upper right hand corner of the page, CGD also provides links to CGD's help documentation and helpdesk email (**[candida-curator@lists.stanford.edu](mailto:candida-curator@lists.stanford.edu)**), CGD citation information and publications, the CGD Facebook page, and a Site Map. The CGD Site Map issues a comprehensive listing of major CGD tools and resources, providing a helpful summary of the purpose of each page and tool.