Resource Summary Report

Generated by NIF on May 15, 2025

Candida Genome Database

RRID:SCR_002036
Type: Tool

Proper Citation

Candida Genome Database (RRID:SCR_002036)

Resource Information

URL: http://www.candidagenome.org/

Proper Citation: Candida Genome Database (RRID:SCR_002036)

Description: Database of genetic and molecular biological information about Candida albicans. 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. Each CGD gene or open reading frame has an individual Locus Page. Genetic loci that are not tied to DNA sequence also have Locus Pages. Provides Gene Ontology, GO, to all its users. Three ontologies that comprise GO (Molecular Function, Cellular Component, and Biological Process) are used by multiple databases to annotate gene products, so that this common vocabulary can be used to compare gene products across species. Development of ontologies is ongoing in order to incorporate new information. Data submissions are welcome.

Abbreviations: CGD, CGD LOCUS, CGD REF

Resource Type: service resource, data repository, data or information resource, database, storage service resource

Defining Citation: PMID:19808938

Keywords: protein, chromosome, classification, gene, genome, candidiasis, thrush, yeast, yeast gene, yeast genome, candida albicans, candida glabrata, data analysis service, biological role, molecular function, subcellular localization, chromosome sequence, bio.tools, FASEB list

Funding: NIDCR DE015873

Availability: Free, Freely available

Resource Name: Candida Genome Database

Resource ID: SCR_002036

Alternate IDs: nif-0000-02634, biotools:cgd

Alternate URLs: https://bio.tools/cgd

Record Creation Time: 20220129T080211+0000

Record Last Update: 20250514T061215+0000

Ratings and Alerts

No rating or validation information has been found for Candida Genome Database.

No alerts have been found for Candida Genome Database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 446 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Miyazaki T, et al. (2025) Mechanisms of multidrug resistance caused by an Ipi1 mutation in the fungal pathogen Candida glabrata. Nature communications, 16(1), 1023.

Wang S, et al. (2025) Eicosapentaenoic acid as an antibiofilm agent disrupts mature biofilms of Candida albicans. Biofilm, 9, 100251.

Gomez-Artiguez L, et al. (2025) Candida albicans: a comprehensive view of the proteome. bioRxiv : the preprint server for biology.

Xiong EH, et al. (2024) Functional genomic analysis of genes important for Candida albicans fitness in diverse environmental conditions. Cell reports, 43(8), 114601.

Xu D, et al. (2024) The Putative Cytochrome b5 Domain-Containing Protein CaDap1 Homologue Is Involved in Antifungal Drug Tolerance, Cell Wall Chitin Maintenance, and

Virulence in Candida albicans. Journal of fungi (Basel, Switzerland), 10(5).

Pelletier C, et al. (2024) Candida auris undergoes adhesin-dependent and -independent cellular aggregation. PLoS pathogens, 20(3), e1012076.

Zhou X, et al. (2024) Erg251 has complex and pleiotropic effects on sterol composition, azole susceptibility, filamentation, and stress response phenotypes. PLoS pathogens, 20(7), e1012389.

Kumar K, et al. (2024) SWI/SNF complex-mediated chromatin remodeling in Candida glabrata promotes immune evasion. iScience, 27(4), 109607.

Rai MN, et al. (2024) Temporal transcriptional response of Candida glabrata during macrophage infection reveals a multifaceted transcriptional regulator CgXbp1 important for macrophage response and fluconazole resistance. eLife, 13.

Hwang IJ, et al. (2024) Nosocomial transmission of fluconazole-resistant Candida glabrata bloodstream isolates revealed by whole-genome sequencing. Microbiology spectrum, 12(10), e0088324.

Zhang L, et al. (2024) Mitochondria complex I deficiency in Candida albicans arrests the cell cycle at S phase through suppressive TOR and PKA pathways. FEMS yeast research, 24.

Day AW, et al. (2024) Selection of ethanol tolerant strains of Candida albicans by repeated ethanol exposure results in strains with reduced susceptibility to fluconazole. PloS one, 19(2), e0298724.

Hoyer LL, et al. (2024) Use of a Candida albicans SC5314 PacBio HiFi reads dataset to close gaps in the reference genome assembly, reveal a subtelomeric gene family, and produce accurate phased allelic sequences. Frontiers in cellular and infection microbiology, 14, 1329438.

Acosta-Zaldívar M, et al. (2024) Candida albicans' inorganic phosphate transport and evolutionary adaptation to phosphate scarcity. PLoS genetics, 20(8), e1011156.

Acosta-Zaldívar M, et al. (2024) Candida albicans' inorganic phosphate transport and evolutionary adaptation to phosphate scarcity. bioRxiv : the preprint server for biology.

Bienvenu AL, et al. (2024) Specifically Targeting Metacaspases of Candida: A New Therapeutic Opportunity. Journal of fungi (Basel, Switzerland), 10(2).

Böttcher B, et al. (2024) A highly conserved tRNA modification contributes to C. albicans filamentation and virulence. Microbiology spectrum, 12(5), e0425522.

Chávez-Tinoco M, et al. (2024) Genetic modification of Candida maltosa, a non-pathogenic CTG species, reveals EFG1 function. Microbiology (Reading, England), 170(3).

Sahu MS, et al. (2024) The Hog1 MAPK substrate governs Candida glabrata-epithelial cell adhesion via the histone H2A variant. PLoS genetics, 20(5), e1011281.

Xu Y, et al. (2024) The rod cell, a small form of Candida albicans, possesses superior fitness to the host gut and adaptation to commensalism. Acta biochimica et biophysica Sinica, 56(9), 1278.