Resource Summary Report

Generated by ASWG on Apr 28, 2025

SGD

RRID:SCR_004694
Type: Tool

Proper Citation

SGD (RRID:SCR_004694)

Resource Information

URL: http://www.yeastgenome.org/

Proper Citation: SGD (RRID:SCR_004694)

Description: A curated database that provides comprehensive integrated biological information for Saccharomyces cerevisiae along with search and analysis tools to explore these data. SGD allows researchers to discover functional relationships between sequence and gene products in fungi and higher organisms. The SGD also maintains the S. cerevisiae Gene Name Registry, a complete list of all gene names used in S. cerevisiae which includes a set of general guidelines to gene naming. Protein Page provides basic protein information calculated from the predicted sequence and contains links to a variety of secondary structure and tertiary structure resources. Yeast Biochemical Pathways allows users to view and search for biochemical reactions and pathways that occur in S. cerevisiae as well as map expression data onto the biochemical pathways. Literature citations are provided where available.

Abbreviations: SGD, SGD LOCUS, SGD REF

Synonyms: SGD LOCUS, Saccharomyces Genome Database, SGD REF

Resource Type: database, data or information resource

Defining Citation: PMID:24265222, PMID:12519985, PMID:9399804

Keywords: database, yeast, pathway, analysis, gene, nomenclature, predicted sequence, fungi, functional relationship, protein structure, bio.tools, FASEB list

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NHGRI 5R01HG004834-04

Availability: Free for academic use, The community can contribute to this resource, Non-commercial

Resource Name: SGD

Resource ID: SCR_004694

Alternate IDs: nif-0000-03456, biotools:sgd, OMICS_01661

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

Old URLs: http://genome-www.stanford.edu/Saccharomyces/

Record Creation Time: 20220129T080226+0000

Record Last Update: 20250428T053119+0000

Ratings and Alerts

No rating or validation information has been found for SGD.

No alerts have been found for SGD.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1891 mentions in open access literature.

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

Tangpranomkorn S, et al. (2025) A land plant-specific VPS13 mediates polarized vesicle trafficking in germinating pollen. The New phytologist, 245(3), 1072.

Theulot B, et al. (2025) Telomere-to-telomere DNA replication timing profiling using single-molecule sequencing with Nanotiming. Nature communications, 16(1), 242.

Brewis HT, et al. (2025) Characterizing the regulatory effects of H2A.Z and SWR1-C on gene expression during hydroxyurea exposure in Saccharomyces cerevisiae. PLoS genetics, 21(1), e1011566.

Xing H, et al. (2025) In situ analysis reveals the TRiC duty cycle and PDCD5 as an open-

state cofactor. Nature, 637(8047), 983.

Duan S, et al. (2025) H3K56 acetylation regulates chromatin maturation following DNA replication. Nature communications, 16(1), 134.

Miao Z, et al. (2025) ScRAPdb: an integrated pan-omics database for the Saccharomyces cerevisiae reference assembly panel. Nucleic acids research, 53(D1), D852.

Kundnani DL, et al. (2024) Distinct features of ribonucleotides within genomic DNA in Aicardi-Goutières syndrome ortholog mutants of Saccharomyces cerevisiae. iScience, 27(6), 110012.

Martinez KP, et al. (2024) Yeast zinc cluster transcription factors involved in the switch from fermentation to respiration show interdependency for DNA binding revealing a novel type of DNA recognition. Nucleic acids research, 52(5), 2242.

Ianiri G, et al. (2024) Transcriptomic investigation of the interaction between a biocontrol yeast, Papiliotrema terrestris strain PT22AV, and the postharvest fungal pathogen Penicillium expansum on apple. Communications biology, 7(1), 359.

Basenko EY, et al. (2024) What is new in FungiDB: a web-based bioinformatics platform for omics-scale data analysis for fungal and oomycete species. Genetics, 227(1).

Muenzner J, et al. (2024) Natural proteome diversity links aneuploidy tolerance to protein turnover. Nature, 630(8015), 149.

Palos-Fernández R, et al. (2024) Copper acquisition is essential for plant colonization and virulence in a root-infecting vascular wilt fungus. PLoS pathogens, 20(11), e1012671.

Warmerdam M, et al. (2024) Specific growth rates and growth stoichiometries of Saccharomycotina yeasts on ethanol as sole carbon and energy substrate. FEMS yeast research, 24.

Gittens WH, et al. (2024) Osmotic disruption of chromatin induces Topoisomerase 2 activity at sites of transcriptional stress. Nature communications, 15(1), 10606.

Wang M, et al. (2024) Annotation of 2,507 Saccharomyces cerevisiae genomes. Microbiology spectrum, 12(4), e0358223.

Hannon-Hatfield JA, et al. (2024) Evolution of a Restriction Factor by Domestication of a Yeast Retrotransposon. Molecular biology and evolution, 41(3).

Varela Salgado M, et al. (2024) Phosphorylation of the F-BAR protein Hof1 drives septin ring splitting in budding yeast. Nature communications, 15(1), 3383.

Suzawa T, et al. (2024) Phosphatidylcholine levels regulate hyphal elongation and differentiation in the filamentous fungus Aspergillus oryzae. Scientific reports, 14(1), 11729.

Taylor MB, et al. (2024) yEvo: A modular eukaryotic genetics and evolution research experience for high school students. Ecology and evolution, 14(1), e10811.

Mangkalaphiban K, et al. (2024) Pleiotropic effects of PAB1 deletion: Extensive changes in the yeast proteome, transcriptome, and translatome. PLoS genetics, 20(9), e1011392.