

Resource Summary Report

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Fungal Genetics Stock Center

RRID:SCR_008143

Type: Tool

Proper Citation

Fungal Genetics Stock Center (RRID:SCR_008143)

Resource Information

URL: <http://www.fgsc.net/>

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Description: The Fungal Genetics Stock Center is a resource available to the Fungal Genetics research community and to educational and research organizations in general. While some fungi can cause disease in humans, most people have innate immunity against fungi. Some people with diseases of the immune system are at increased risk of infection by fungi. Drugs have been developed in the last 5 years that help with this. Fungal Genetics is the study of genes and genetic traits in fungi. In the past this has been important in the elucidation of what a gene is, what the genetic material is, how genes relate to enzymes, how enzymes relate to traits and how important traits change or evolve. In the present, Fungal Genetics is important to understanding how fungi are pathogens of plants and animals, how fungi can be used in industry for the production of enzymes, chemicals, food, and drugs. Fungi are also essential to processing bio-mass in the attempt to use ethanol as a fuel source. The FGSC is funded largely by a grant from the National Science Foundation (Award Number 0235887) of the United States of America. Sponsors: Supported by a grant from the National Science Foundation.

Synonyms: FGSC

Resource Type: biomaterial supply resource, material resource, organism supplier

Keywords: drug, fungal genetic, fungus, animal, basic research knowledge base, database, disease, plant, FASEB list

Funding: NSF G12967

Resource Name: Fungal Genetics Stock Center

Resource ID: SCR_008143

Alternate IDs: nif-0000-20977

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260804T043354+0000

Ratings and Alerts

No rating or validation information has been found for Fungal Genetics Stock Center.

No alerts have been found for Fungal Genetics Stock Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 190 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Drescher F, et al. (2025) Transcriptomic and genetic analysis reveals a Zn2Cys6 transcription factor specifically required for conidiation in submerged cultures of *Thermothelomyces thermophilus*. *mBio*, 16(1), e0311124.

Jacquat AG, et al. (2025) The Growth, Pathogenesis, and Secondary Metabolism of *Fusarium verticillioides* Are Epigenetically Modulated by Putative Heterochromatin Protein 1 (FvHP1). *Journal of fungi* (Basel, Switzerland), 11(6).

Tsiourvas D, et al. (2025) The effect of copper on the antifungal activity of polyethyleneimines against quiescent conidia and germlings of *Aspergillus nidulans*. *Scientific reports*, 15(1), 25711.

Sharma A, et al. (2025) Transcriptional control of *C. albicans* white-opaque switching and modulation by environmental cues and strain background. *mBio*, 16(5), e0058125.

Zhou M, et al. (2025) Suppressed Protein Translation Caused by MSP-8 Deficiency Determines Fungal Multidrug Resistance with Fitness Cost. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(6), e2412514.

Kadooka C, et al. (2025) Overexpression of the RNA-binding protein NrdA affects global gene expression and secondary metabolism in *Aspergillus* species. *mSphere*, 10(2), e0084924.

Rico-Ramirez AM, et al. (2025) Identification of regions required for allelic specificity at the cell wall remodeling allorecognition checkpoint in *Neurospora crassa*. *Genetics*, 230(2).

Sárkány O, et al. (2025) Conserved function of a RasGEF-mediated pathway in the metabolic compensation of the circadian clock. *The FEBS journal*, 292(20), 5335.

Tsiourvas D, et al. (2025) Copper-Chelated Hyperbranched Polyethyleneimines with Antifungal Activity against quiescent conidia and germlings of the opportunistic fungal pathogen *Aspergillus nidulans*. Research square.

Ámon J, et al. (2025) A non-canonical fungal peroxisome PTS-1 signal, SYM, and its evolutionary aspects. Scientific reports, 15(1), 28088.

Huberman LB, et al. (2025) A novel regulator of the fungal phosphate starvation response revealed by transcriptional profiling and DNA affinity purification sequencing. mBio, 16(10), e0202325.

He Z, et al. (2025) RID is required for both repeat-induced point mutation and nucleation of a novel transitional heterochromatic state for euchromatic repeats. Nucleic acids research, 53(6).

Maienza CSD, et al. (2025) Cross-species comparison of AlphaFold-derived G protein-coupled receptor structures reveals novel melatonin-related receptor in *Neurospora crassa*. PloS one, 20(1), e0318362.

Wang Z, et al. (2025) Core Clock Protein Subcellular Dynamics Coordinate Local and Global Circadian Control in Syncytia. bioRxiv : the preprint server for biology.

Gray K, et al. (2024) *Aspergillus nidulans* cell wall integrity kinase, MpkA, impacts cellular phenotypes that alter mycelial-material mechanical properties. Fungal biology and biotechnology, 11(1), 22.

Dos Reis TF, et al. (2024) Brilacidin, a host defense peptide mimetic, potentiates ibrexafungerp antifungal activity against the human pathogenic fungus *Aspergillus fumigatus*. bioRxiv : the preprint server for biology.

Barraco-Vega M, et al. (2024) Mutational analysis of *Phanerochaete chrysosporium*'s purine transporter. PloS one, 19(10), e0313174.

Yee EA, et al. (2024) Phenotypic characterization of HAM1, a novel mating regulator of the fungal pathogen *Cryptococcus neoformans*. bioRxiv : the preprint server for biology.

Carlier F, et al. (2024) Remodeling of perturbed chromatin can initiate de novo transcriptional and post-transcriptional silencing. Proceedings of the National Academy of Sciences of the United States of America, 121(31), e2402944121.

Rabenow M, et al. (2024) Convergent evolution links molybdenum insertase domains with organism-specific sequences. Communications biology, 7(1), 1352.