Resource Summary Report

Generated by NIF on Apr 26, 2025

Gene Weaver

RRID:SCR_003009
Type: Tool

Proper Citation

Gene Weaver (RRID:SCR_003009)

Resource Information

URL: http://www.GeneWeaver.org

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Description: Freely accessible phenotype-centered database with integrated analysis and visualization tools. It combines diverse data sets from multiple species and experiment types, and allows data sharing across collaborative groups or to public users. It was conceived of as a tool for the integration of biological functions based on the molecular processes that subserved them. From these data, an empirically derived ontology may one day be inferred. Users have found the system valuable for a wide range of applications in the arena of functional genomic data integration.

Synonyms: GeneWeaver, GeneWeaver - A system for the integration of functional genomics experiments, Ontological Discovery Environment, GeneWeaver.org

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

Defining Citation: PMID:22080549, PMID:19733230

Keywords: phenotype, microarray, gene, genome, functional genomics, process, pathway, function, gene set, genomic data integration, analysis, visualization

Funding: Integrative Neuroscience Initiative on Alcoholism ;
NIAAA U01 AA13499;
NIAAA U24 AA13513;
NIAAA R01 AA18776

Availability: Free, Freely available

Resource Name: Gene Weaver

Resource ID: SCR_003009

Alternate IDs: OMICS_02232, nif-0000-00517

Alternate URLs: http://ontologicaldiscovery.org/

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Record Creation Time: 20220129T080216+0000

Record Last Update: 20250426T055606+0000

Ratings and Alerts

No rating or validation information has been found for Gene Weaver.

No alerts have been found for Gene Weaver.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Roy TA, et al. (2024) Discovery and validation of genes driving drug-intake and related behavioral traits in mice. Genes, brain, and behavior, 23(1), e12875.

Hagenauer MH, et al. (2024) Resource: A Curated Database of Brain-Related Functional Gene Sets (Brain.GMT). bioRxiv : the preprint server for biology.

Hagenauer MH, et al. (2024) Resource: A curated database of brain-related functional gene sets (Brain.GMT). MethodsX, 13, 102788.

Ghanbarzehi A, et al. (2023) Disclosing common biological signatures and predicting new therapeutic targets in schizophrenia and obsessive-compulsive disorder by integrated bioinformatics analysis. BMC psychiatry, 23(1), 40.

Roy TA, et al. (2023) DISCOVERY AND VALIDATION OF GENES DRIVING DRUG-INTAKE

AND RELATED BEHAVIORAL TRAITS IN MICE. bioRxiv : the preprint server for biology.

Wotton JM, et al. (2022) Identifying genetic determinants of inflammatory pain in mice using a large-scale gene-targeted screen. Pain, 163(6), 1139.

Sepehrinezhad A, et al. (2021) A Computational-Based Drug Repurposing Method Targeting SARS-CoV-2 and its Neurological Manifestations Genes and Signaling Pathways. Bioinformatics and biology insights, 15, 11779322211026728.

Palmer RHC, et al. (2021) Multi-omic and multi-species meta-analyses of nicotine consumption. Translational psychiatry, 11(1), 98.

Dolan ME, et al. (2020) Investigation of COVID-19 comorbidities reveals genes and pathways coincident with the SARS-CoV-2 viral disease. bioRxiv : the preprint server for biology.

Dolan ME, et al. (2020) Investigation of COVID-19 comorbidities reveals genes and pathways coincident with the SARS-CoV-2 viral disease. Scientific reports, 10(1), 20848.

Chunduri A, et al. (2020) Narcolepsy in Parkinson's disease with insulin resistance. F1000Research, 9, 1361.

Sharma A, et al. (2020) Common genetic signatures of Alzheimer's disease in Down Syndrome. F1000Research, 9, 1299.

Brown SDM, et al. (2020) Precision and Functional Genomics. Mammalian genome : official journal of the International Mammalian Genome Society, 31(1-2), 1.

Bubier JA, et al. (2020) Discovery of a Role for Rab3b in Habituation and Cocaine Induced Locomotor Activation in Mice Using Heterogeneous Functional Genomic Analysis. Frontiers in neuroscience, 14, 721.

Bubier JA, et al. (2020) Genetic variation regulates opioid-induced respiratory depression in mice. Scientific reports, 10(1), 14970.

Parker CC, et al. (2020) Alcohol Sensitivity as an Endophenotype of Alcohol Use Disorder: Exploring Its Translational Utility between Rodents and Humans. Brain sciences, 10(10).

Zhao X, et al. (2020) Network Pharmacology-Based Strategy for Predicting Therapy Targets of Traditional Chinese Medicine Xihuang Pill on Liver Cancer. Evidence-based complementary and alternative medicine : eCAM, 2020, 6076572.

Hill DP, et al. (2019) Cisplatin-resistant triple-negative breast cancer subtypes: multiple mechanisms of resistance. BMC cancer, 19(1), 1039.

Bogenpohl JW, et al. (2019) Cross-Species Co-analysis of Prefrontal Cortex Chronic Ethanol Transcriptome Responses in Mice and Monkeys. Frontiers in molecular neuroscience, 12, 197.

McGuier NS, et al. (2018) Identification and validation of midbrain Kcnq4 regulation of heavy

alcohol consumption in rodents. Neuropharmacology, 138, 10.