

Resource Summary Report

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MouseNET

RRID:SCR_003357

Type: Tool

Proper Citation

MouseNET (RRID:SCR_003357)

Resource Information

URL: <http://mouseNET.princeton.edu>

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Description: A functional network for laboratory mouse based on integration of diverse genetic and genomic data. It allows the users to accurately predict novel functional assignments and network components. MouseNET uses a probabilistic Bayesian algorithm to identify genes that are most likely to be in the same pathway/functional neighborhood as your genes of interest. It then displays biological network for the resulting genes as a graph. The nodes in the graph are genes (clicking on each node will bring up SGD page for that gene) and edges are interactions (clicking on each edge will show evidence used to predict this interaction). Most likely, the first results to load on the results page will be a list of significant Gene Ontology terms. This list is calculated for the genes in the biological network created by the mouseNET algorithm. If a gene ontology term appears on this list with a low p-value, it is statistically significantly overrepresented in this biological network. The graph may be explored further. As you move the mouse over genes in the network, interactions involving these genes are highlighted. If you click on any of the highlighted interactions graph, evidence pop-up window will appear. The Evidence pop-up lists all evidence for this interaction, with links to the papers that produced this evidence - clicking these links will bring up the relevant source citation(s) in PubMed.

Abbreviations: mouseNet

Synonyms: MouseNET

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

Defining Citation: [PMID:18818725](#)

Keywords: gene, network, mouse, protein function, visualization, open reading frame, graph

Funding: NSF DBI-0546275;
NIGMS R01 GM071966;
NSF IIS-0513552;
NIGMS P50 GM071508

Availability: Free, Freely available

Resource Name: MouseNET

Resource ID: SCR_003357

Alternate IDs: OMICS_01550, nif-0000-32003

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260821T193703+0000

Ratings and Alerts

No rating or validation information has been found for MouseNET.

No alerts have been found for MouseNET.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Arrieta-Lobo M, et al. (2026) Modeling Huntington's disease against age-related genes reveals CXXC4 as an epigenetic target to restore DRD1 striatal neuron activity. bioRxiv : the preprint server for biology.

Bigan E, et al. (2020) Genetic cooperativity in multi-layer networks implicates cell survival and senescence in the striatum of Huntington's disease mice synchronous to symptoms. Bioinformatics (Oxford, England), 36(1), 186.

Paredes-Sanchez FA, et al. (2015) Associations of SNPs located at candidate genes to bovine growth traits, prioritized with an interaction networks construction approach. BMC genetics, 16, 91.