

Resource Summary Report

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Bloomington Drosophila Stock Center

RRID:SCR_006457

Type: Tool

Proper Citation

Bloomington Drosophila Stock Center (RRID:SCR_006457)

Resource Information

URL: <https://bdsc.indiana.edu/>

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Description: Collects, maintains and distributes *Drosophila melanogaster* strains for research. Emphasis is placed on genetic tools that are useful to a broad range of investigations. These include basic stocks of flies used in genetic analysis such as marker, balancer, mapping, and transposon-tagging strains; mutant alleles of identified genes, including a large set of transposable element insertion alleles; defined sets of deficiencies and a variety of other chromosomal aberrations; engineered lines for somatic and germline clonal analysis; GAL4 and UAS lines for targeted gene expression; enhancer trap and lacZ-reporter strains with defined expression patterns for marking tissues; and a collection of transposon-induced lethal mutations.

Abbreviations: BDSC

Synonyms: Bloomington Drosophila Stock Center at Indiana University

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

Keywords: RIN, Resource Information Network, disease model, deficiency, deletion, transposon insertion, sequenced strain, duplication, protein trap, human disease model, transposon, fly, gene, genetic, genetic analysis, database, deficiency, germline, insertion, invertebrate, scientist, somatic, stock, transposon, mutation, genetic construct, FASEB list, RRID Community Authority

Related Condition: Human disease model

Funding: NIH Office of the Director P40 OD018537

Resource Name: Bloomington Drosophila Stock Center

Resource ID: SCR_006457

Alternate IDs: nif-0000-00241

Alternate URLs: <https://orip.nih.gov/comparative-medicine/programs/invertebrate-models>

Old URLs: <http://flystocks.bio.indiana.edu/bloomhome.htm>

Record Creation Time: 20220129T080236+0000

Record Last Update: 20260912T195640+0000

Ratings and Alerts

No rating or validation information has been found for Bloomington Drosophila Stock Center.

No alerts have been found for Bloomington Drosophila Stock Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3419 mentions in open access literature.

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

Jay KL, et al. (2026) Resolving SLC6A1 variable expressivity with deep clinical phenotyping and Drosophila models. HGG advances, 7(1), 100541.

Deal SL, et al. (2026) RNAi-based screen for pigmentation in Drosophila melanogaster reveals regulators of brain dopamine and sleep. iScience, 29(1), 114388.

Okuyama T, et al. (2026) Genetic heterogeneity alleviates behavioral trade-off between exploration and vigilance in Drosophila. iScience, 29(6), 116171.

Sadanandappa MK, et al. (2026) GAL4-based functional screen of neuropeptides in Drosophila reproduction. PloS one, 21(3), e0345918.

Lai SL, et al. (2026) The Fd4 transcription factor translates transient spatial cues in progenitors into long-term lineage identity. eLife, 14.

Weasner BM, et al. (2026) Genetic analyses enabled by the fourth chromosome resource project reveal unexpected mutant phenotypes and suggest new disease models. G3 (Bethesda, Md.), 16(6).

Littel HR, et al. (2026) The impact of Hnrnp1 deficiency on transcriptional patterns of developing muscle cells. FEBS open bio, 16(1), 178.

Boivin M, et al. (2026) GGC repeat expansions within new open reading frames are translated into toxic polyglycine proteins in oculopharyngodistal myopathy. Nature

genetics, 58(3), 517.

Garzillo K, et al. (2026) The Vesicular Glutamate Transporter Modulates Sex and Region-Specific Differences in Dopaminergic Neuron α -Synuclein Toxicity by Modifying Cytosolic Dopamine Levels. *bioRxiv : the preprint server for biology*.

Rossitto LM, et al. (2026) Ketone body β -hydroxybutyrate restores neuronal Tau proteostasis via ketolysis-independent mechanism. *bioRxiv : the preprint server for biology*.

Dos Santos RF, et al. (2026) FLYNC: a machine-learning-driven framework for discovering long noncoding RNAs in *Drosophila melanogaster*. *NAR genomics and bioinformatics*, 8(1), lqaf216.

Benner L, et al. (2026) A mdg4 Retrotransposon Screen for X-linked Female Sterile Alleles and its Relationship with the Transcription Factor OVO. *bioRxiv : the preprint server for biology*.

Pehlivan D, et al. (2026) Bi-allelic variants in NRDC cause a neurodevelopmental disorder characterized by neonatal lethality, microcephaly, and brain abnormalities. *American journal of human genetics*, 113(3), 548.

Ben Ezra M, et al. (2026) The human pathome shows sex and tissue specific aging patterns. *npj aging*, 12(1), 23.

Pathak M, et al. (2026) Mouse germline cysts contain a fusome-like structure that mediates oocyte development. *eLife*, 14.

Katzenberger RJ, et al. (2026) Genetic variation in innate immune gene expression influences mortality after traumatic brain injury in *Drosophila*. *G3 (Bethesda, Md.)*, 16(5).

Ruan K, et al. (2026) MicroRNA-Mediated Obstruction of Stem-loop Alternative Splicing (MIMOSAS) regulates long-range alternative splicing in *Drosophila*. *Nucleic acids research*, 54(7).

Pecsenye B, et al. (2026) Making Sense of Developmental Kinetics Under High-Sugar Stress: Mathematical Modeling of Phenotypic Plasticity in *Drosophila melanogaster*. *Nutrients*, 18(8).

Wright MP, et al. (2026) Loss of ABC transporters, White, Brown, and Scarlet, prevents increase in mitotic divisions of germline stem cells in response to mating in *Drosophila melanogaster*. *PloS one*, 21(4), e0346783.

Chen P, et al. (2026) MicroRNA-375-3p Targets Fatty Acid Synthase and Relish to Regulate Energy Allocation During Pupal Metamorphosis and Starvation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(20), e13486.