

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: organism supplier, material resource, biomaterial supply resource

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: 20260803T040438+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 3164 mentions in open access literature.

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

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

Gunnala S, et al. (2026) Increased dietary levels of folic acid reduce survival and alters climbing behaviors 24?h after hypoxia in male and female Drosophila melanogaster. Behavioural brain research, 499, 115941.

Knudsen C, et al. (2025) Chondroitin sulfate regulates proliferation of Drosophila intestinal stem cells. PLoS genetics, 21(5), e1011686.

Aavula K, et al. (2025) Regulation of miR-219 and its target RalGPS dictates acute synaptic plasticity at the Drosophila neuromuscular junction. bioRxiv : the preprint server for biology.

Mahadik N, et al. (2025) Evaluation of the toxicity and efficacy of a multi-target polymer-drug nano-polyplex in SH-SY5Y cells and Drosophila model of tauopathy. Scientific reports, 15(1), 39454.

Strachan EL, et al. (2025) Novel in vivo models of autosomal optic atrophy reveal conserved pathological changes in neuronal mitochondrial structure and function. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(7), e70497.

Weasner BM, et al. (2025) A new *Drosophila melanogaster* research resource: CRISPR-induced mutations for clonal analysis of fourth chromosome genes. *G3* (Bethesda, Md.), 15(3).

Töfflinger EV, et al. (2025) *Drosophila melanogaster* as a rapid in vivo assay system for preclinical anti-seizure medication testing. *Epilepsia open*, 10(4), 1260.

Bao M, et al. (2025) In vivo regulation of an endogenously tagged protein by a light-regulated kinase. *G3* (Bethesda, Md.), 15(6).

Katz MJ, et al. (2025) Autophagy controls differentiation of *Drosophila* blood cells by regulating Notch levels in response to nutrient availability. *Nature communications*, 16(1), 5858.

Lenhart BA, et al. (2025) The inversion *In(2L)t* impacts complex, environmentally sensitive behaviors in *Drosophila melanogaster*. *bioRxiv : the preprint server for biology*.

Moreira-Soto RD, et al. (2025) Oviposition Dynamics and Niche Utilization in Two Sympatric *Drosophila* Species. *Journal of chemical ecology*, 51(1), 21.

Lalioti VS, et al. (2025) The *Drosophila* epidermal growth factor receptor pathway regulates Hedgehog signalling and cytoneme behaviour. *Nature communications*, 16(1), 1994.

Wolf van der Meer J, et al. (2025) Hao-Fountain syndrome protein USP7 controls neuronal differentiation via BCOR-ncPRC1.1. *Genes & development*, 39(5-6), 401.

Pradhan RN, et al. (2025) Ionotropic receptors mediate arachidic acid perception and food avoidance behavior in *Drosophila melanogaster*. *Molecules and cells*, 48(12), 100290.

Stavrovskaya I, et al. (2025) Mitochondrial ROS modulate presynaptic plasticity in the *drosophila* neuromuscular junction. *Redox biology*, 79, 103474.

Mattioni A, et al. (2025) A variant of the autophagic receptor NDP52 counteracts phospho-TAU accumulation and emerges as a protective factor for Alzheimer's disease. *Cell death & disease*, 16(1), 300.

Bretz NM, et al. (2025) Venom vesicles from the parasitoid *Ganaspis hookeri* facilitate venom protein entry into host immune cells. *bioRxiv : the preprint server for biology*.

Gruber L, et al. (2025) The unique synaptic circuitry of specialized olfactory glomeruli in *Drosophila melanogaster*. *eLife*, 12.

Waring-Sparks AL, et al. (2025) The *Drosophila* PDGF/VEGF signaling pathway regulates host immunometabolism in response to parasitoid infection. *bioRxiv : the preprint server for biology*.