Resource Summary Report

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BrainTrap: Fly Brain Protein Trap Database

RRID:SCR_003398
Type: Tool

Proper Citation

BrainTrap: Fly Brain Protein Trap Database (RRID:SCR_003398)

Resource Information

URL: http://braintrap.inf.ed.ac.uk/braintrap/

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Description: This database contains information on protein expression in the Drosophila melanogaster brain. It consists of a collection of 3D confocal datasets taken from EYFP expressing protein trap Drosophila lines from the Cambridge Protein Trap project. Currently there are 884 brain scans from 535 protein trap lines in the database. Drosophila protein trap strains were generated by the St Johnston Lab and the Russell Lab at the University of Cambridge, UK. The piggyBac insertion method was used to insert constructs containing splice acceptor and donor sites, StrepII and FLAG affinity purification tags, and an EYFP exon (Venus). Brain images were acquired by Seymour Knowles-Barley, in the Armstrong Lab at the University of Edinburgh. Whole brain mounts were imaged by confocal microscopy, with a background immunohistochemical label added to aid the identification of brain structures. Additional immunohistochemical labeling of the EYFP protein using an anti-GFP antibody was also used in most cases. The trapped protein signal (EYFP / anti-GFP), background signal (NC82 label), and the merged signal can be viewed on the website by using the corresponding channel buttons. In all images the trapped protein / EYFP signal appears green and the background / NC82 channel appears magenta. Original .lsm image files are also available for download.

Abbreviations: BrainTrap

Synonyms: Fly Brain Protein Trap Database, Brain Trap

Resource Type: data or information resource, database, d spatial image

Defining Citation: PMID:20624714

Keywords: brain, exon, expression, 3d confocal, affinity, antibody, dataset, immunohistochemical, microscopy, image, protein, protein-trap, gene

Funding: EPSRC ;
British society for Developmental Biology ;
Society for Experimental Biology ;
Virtual Fly Brain e-Science Institute Theme ;
BBSRC ;
MRC

Resource Name: BrainTrap: Fly Brain Protein Trap Database

Resource ID: SCR_003398

Alternate IDs: nif-0000-32989

Old URLs: http://fruitfly.inf.ed.ac.uk/braintrap/

Record Creation Time: 20220129T080218+0000

Record Last Update: 20250521T060916+0000

Ratings and Alerts

No rating or validation information has been found for BrainTrap: Fly Brain Protein Trap Database.

No alerts have been found for BrainTrap: Fly Brain Protein Trap Database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Lowe N, et al. (2014) Analysis of the expression patterns, subcellular localisations and interaction partners of Drosophila proteins using a pigP protein trap library. Development (Cambridge, England), 141(20), 3994.