

New Search Options

QuickSearch

"All" data class search (coming soon)

- If you're unsure of the data class for your search term, use the "all" option.
- Especially useful for searching insertions/constructs/alleles when the data class isn't obvious.
- Returns a page of hits, divided by data class.

QueryBuilder

- New option to save and store queries
- Files are stored on your computer

Query is empty.. [Click here to start building](#) or [Click here to import previously saved query](#)

Recap: New Tools 2008

Interactions Browser

- Search by gene or allele
- View enhancers and/or suppressors
- Traverse pathways by selecting interacting genes/alleles to change view

Coordinates Converter

- Convert coordinates from a prior release to a newer release
- Found in the tools menu

FlyBase User Forums

- Anyone can view messages. To post, create an account (free!)
- List/search jobs
- Ask questions about flies or FlyBase
- Ask the community to help find a reagent
- Special section for power users



A Database of *Drosophila* Genes and Genomes

New and Notable 2009

Tools Overview

Add a Paper

New GBrowse Features

New Search Options

Recap: New Tools for 2008

www.flybase.org

FlyBase is supported by a grant from the National Human Genome Research Institute (NHGRI) at NIH #P41 HG000739. Support is also provided by the British Medical Research Council and the Indiana Genomics Initiative.

Tools Overview

Tools Overview

General Tools:

- ★ Aberration Maps
- Batch Download
- BLAST
- ★ Chromosome Maps
- Coordinate Converter
- CytoSearch
- GBrowse
- Google™ FlyBase
- ImageBrowse
- Interactions Browser
- QueryBuilder
- QuickSearch
- TermLink
- Data Submission:**
- Add A Paper
- People:**
- Find A Person
- Add A New Person
- Update An Address

Tools Overview

Describes the tools at FlyBase and when to use which one.

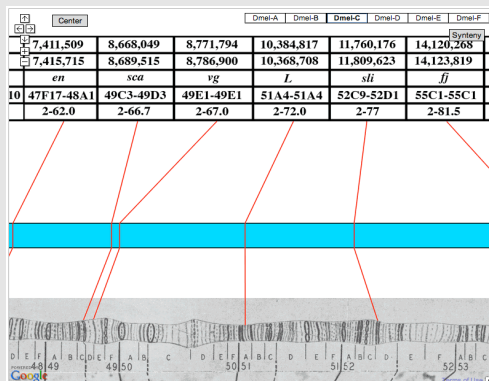
Overview of Search Strategies

- ☑ Searching 12 species
- ☑ Aberrations - deficiencies, inversions
- ☑ Cytologically mapped features
- ☑ Expression Data
- ☑ Mutant phenotype data
- ☑ References
- ☑ Stocks
- Main Query Tools**
- ☑ Jump to Gene
- ☑ QuickSearch
- ☑ QueryBuilder
- ☑ TermLink
- Query Results Analysis Tools**
- ☑ Hit list refinement
- ☑ Batch Download

Two New Maps

- **Aberration Maps:** View entire chromosome arm with all of its molecularly mapped aberrations.
- **Chromosome Maps:** View markers & polytene bands. Link to standard GBrowse

Chromosome Maps



Add a Paper

Give your paper a head start towards curation:

- Associate genes with a publication.
- Provide additional information about the experiments(optional)
- Submit data online

Found in the “Tools Menu”

FlyBase Publication Submission

Home Tools Files Species Documents Resources News Help Archives Jump to Gene

This allows you to submit data:

- about a publication directly to the FlyBase curation pipeline.
- associating genes with a publication in FlyBase.
- that FlyBase can use to prioritize the full curation of a publication.

Step 1: Identify yourself so the submission can be attributed to you

Your details

Name:

E-mail:

Re-enter e-mail:

Next step

Step 2: Identify the publication in FlyBase

Step 3: Identify genes that are experimental subjects of the publication

Step 4: Provide additional information on publication content to facilitate full curation (optional)

Step 5: Confirm your submission

Contact FlyBase version FB2009_02, released February 20, 2009 Site Map

Advantages for the user:

- User-driven data submission. You have control over the curation of your paper.
- Fast incorporation of a reference onto the reference list for relevant gene reports.
- You tell us what is important about your paper and what genes are the main focus rather than the other way around.

Advantages for FlyBase:

- Reduces number of papers that we need to “skim curate”.
- Improves curation. Authors know more about their work than we do so are likely to be very accurate.
- Increases user involvement and communication.

New GBrowse Features

Search

Switch to Chromosome Map

Landmark or Region: Search

Data Source: D. melanogaster (R5.15)

Overview

Chromosome Maps:

Direct link to view region in context of polytene chromosome map.

Data source options:

- Change data source to view other sequenced species.
- Option to view “Aberration Maps” for Dmel
- Option to view Insertions available from stock collections

Instructions (Help)

"Landmark or Region Search": sequence I
"Advanced Search": cytoloations, symbol
To center on a location, click the ruler. Use
Examples: *cn*, *FBan0000490*, *X:60000*

- A. aegypti (mosquito)
- A. gambiae (mosquito)
- C. elegans (worm)
- D. ananassae
- D. erecta
- D. grimshawi
- ✓ D. melanogaster (R5.15)
- ★ D. melanogaster aberrations
- D. mojavensis
- D. persimilis
- D. pseudoobscura (R2.3)
- D. sechellia
- D. simulans
- D. virilis
- D. willistoni
- D. yakuba
- H. sapiens (human)
- ★ Insertions in Stock Collections
- T. castaneum (red flour beetle)

Ortholog Pop-ups:

Orthologs are listed for Drosophilids and other species in a pop-up window that is activated when you mouse over the “ortholog bar”

