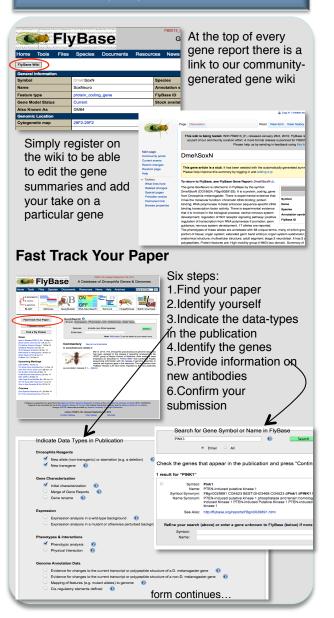
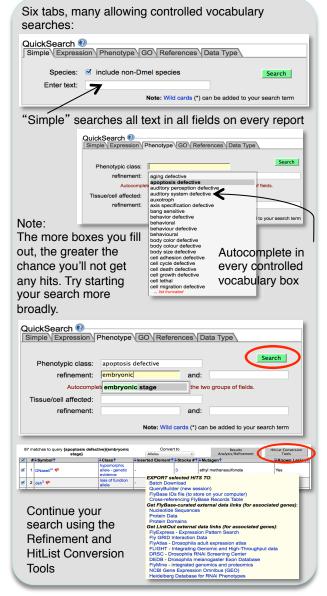
# FlyGene Wiki and FTYP



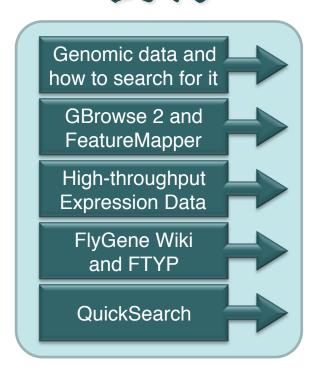
### QuickSearch





A Database of *Drosophila* Genes and Genomes

# What's New 2013



# 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

# Searching large datasets

#### Large Dataset Metadata (LDM) Reports

These reports contain information such as:

- · Description of dataset
- · Experimental procedures
- · List of related datasets (parent or child)
- Link to list or file of dataset members

#### Search Options

 QuickSearch allows you to search all fields on the LDM reports at once. To search for modENCODE data sets:



· QueryBuilder allows searches by specific field

**GBrowse Track** labels link to relevant LDM reports

☐ Insulator class I K	Silencer	Q
☐ Insulator class II	Regulatory Region	B
☐ Protein Binding Site	☐ TFBS - HOT spot analy	Browse1
Enhancer	☐ TFBS - zinc finger doma	se1
☆ ☐ Insulator class I [?] <b>K</b>	☆ ☐ TFBS - HOT	GB
☆ ☐ Insulator class II [?]	☆ ☐ TFBS - zinc f	row
☆ ☐ Protein Binding Site [?]	☆ ☐ TFBS - home	GBrowse2
□ Enhancer [?]	☆ ☐ TFBS - helix-	

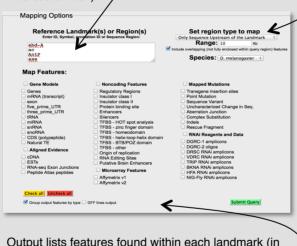
**Sequence Feature reports** contain links to datasets of which the feature is a member



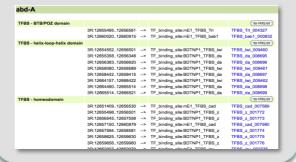
## FeatureMapper

**Purpose**: to identify features within a sequence range of interest:

- Features include insulators, transcription factor binding sites, point mutations, RNA editing sites, etc.
- Can search within genes, upstream of genes, downstream of genes, or within any desired sequence (enter sequence coordinates directly into search box)



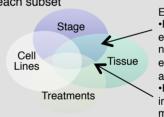
Output lists features found within each landmark (in this case, 10kb upstream of several genes, *abd-A* shown). Features can also be downloaded in GFF format.



# Expression data update



- •Identify sets of genes with similar expression patterns. There are currently four types of expression patterns that can be searched.
- •You can search one more at a time
- •Expression can be selected to be high or low for each subset



Examples:

- •Find genes with HIGH expression in the larval nervous system and LOW expression in embryos or adults
- •Find genes upregulated in response to ethanol and male-specific

#### **Expression section of the Gene Report**

New sub-section: expression deduced from reporters

■ Expression Data		
Transcript Expression		
Polypeptide Expression		
Expression Deduced from Reporters		
Reporter: P{Ser-GAL4.GF}		
Stage	Tissue/Position (including subcellular lo	
third instar larval stage	wing disc   distal	
	wing disc   dorsal	
wandering third instar larval stage	embryonic/larval proventriculus	
	wing disc   restricted	
High-Throughput Expression Data		
Expression Clusters		
External Data & Images		
<del></del>		