

## **Fruit Fly Pathfinder:**

*Drosophila melanogaster* Research: Getting Educated....a little help.. : -)

Use your knowledge of key words and website evaluation to conduct your research.

### **GENERAL INFORMATION:**

*Carolina Drosophila Manual*

(print manual, can be checked out from Mrs. Knapp and on reserve in library)

### **TAXONOMY/CLASSIFICATION:**

Animal Diversity Web (University of Michigan):

[http://animaldiversity.ummz.umich.edu/site/accounts/information/Drosophila\\_melanogaster.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Drosophila_melanogaster.html)

### **LIFE CYCLE:**

"Flies in Space" animated *Drosophila* life cycle:

Important: look to the left under: *Drosophila* and find links to other needed information!

<http://quest.nasa.gov/projects/flies/cycleAnim.html>

Development of the *Drosophila melanogaster*:

[http://bcs.whfreeman.com/thelifewire8e/content/cat\\_010/1904003.html](http://bcs.whfreeman.com/thelifewire8e/content/cat_010/1904003.html)

### **FLY EXTERNAL ANATOMY:**

Basic Insect Anatomy:

[http://evolution.berkeley.edu/evolibrary/article/0\\_0/arthropods\\_03](http://evolution.berkeley.edu/evolibrary/article/0_0/arthropods_03)

Mutant Fruit Flies:

[http://www.exploratorium.edu/exhibits/mutant\\_flies/mutant\\_flies.html](http://www.exploratorium.edu/exhibits/mutant_flies/mutant_flies.html)

BIO 114: *Drosophila melanogaster*: Wing Investigation

(has other great information on topic)

<http://bioweb.wku.edu/courses/Biol114/Online/Genetics/Drosophila.htm>

## **DETERMINING GENDER:**

Variations of *Drosophila melanogaster*

<http://www.cas.vanderbilt.edu/bsci111b/drosophila/supplemental.htm>

Should we even keep this in? Talks about sex combs, did you say hard to identify?

Simple Mendelian Genetics in *Drosophila* (shows how to cross breed)? (Chi square)

<http://math.hws.edu/javamath/ryan/Genetics1.html>

## **WHY FRUIT FLIES?**

Introduction and Quick Facts: A Quick and Simple Introduction:

<http://www.ceolas.org/fly/intro.html>

Introduction and Useful Facts: University of Arizona:

<http://biology.arizona.edu/sciconn/lessons2/geiger/intro.htm>

This is why fruit flies topic but... also has some life cycle and classification info.

## **THOMAS HUNT MORGAN AND THE FIRST FRUIT FLY EXPERIMENTS:**

Thomas Hunt Morgan:

[http://nobelprize.org/nobel\\_prizes/medicine/laureates/1933/morgan-bio.html](http://nobelprize.org/nobel_prizes/medicine/laureates/1933/morgan-bio.html)

Thomas Hunt Morgan at Columbia University:

<http://www.columbia.edu/cu/alumni/Magazine/Legacies/Morgan/index.html>

DNA From the Beginning , Concept 10: [Thomas Hunt Morgan]

<http://www.dnaftb.org/dnaftb/10/gallery/index.html>

Concept 11: The Gene Shuffle

<http://www.dnaftb.org/11/concept/index.html>

“Year of Discovery”

<http://www.columbia.edu/cu/alumni/Magazine/Morgan/morgan.html>

## **DATABASE:**

eLibrary:

<http://elibrary.bigchalk.com>

user id: 48-1064 password: bigchalk

## **CITATIONS:**

Remember to use MLA format, in-text citations and Works Cited page.

EHS Library Website: Citation Help guide:

<http://www.district140.org/EHS/Library.htm>

NoodleTools:

<http://www.noodletools.com/login.php?group=9419&code=8011>

username: eureka password: library

## **Know Your Content: (review to check your knowledge)**

*Drosophila melanogaster* Tutorial:

[http://www.phschool.com/science/biology\\_place/labbench/lab7/intro.html](http://www.phschool.com/science/biology_place/labbench/lab7/intro.html)