

AP Biology Lab 7: Genetics of *Drosophila*

Background

Imagine that you have decided to devote your career to genetic research. You want to find mutants with interesting characteristics and study their inheritance. What organism should you study? It would be best to choose something that is small, easy to keep, has a short generation time, and produces many offspring. Scientists have adopted certain organisms as good choices for studying basic processes common to many life forms. These are often called "model organisms." The fruit fly *Drosophila melanogaster* is an excellent model organism for genetics research. A scientist can keep hundreds or thousands of them in a jar and millions in a single room. They are hardy and have simple food requirements. *Drosophila* completes its life cycle in about two weeks at room temperature and produces large numbers of offspring. It is easy to immobilize them for examination and sorting, and they cannot hurt you. Fruit flies have only four pairs of chromosomes, which can be readily observed in cells of the salivary glands. One pair of these chromosomes is not completely homologous; these two are designated X and Y. These are the sex chromosomes: females have two X chromosomes and males have an X and a Y. The other three pair of chromosomes are autosomes. Genes located on the portion of the X chromosome that has no counterpart on the Y are said to be sex-linked or X-linked.

Research with *Drosophila* helped to establish facts we now take for granted, for example, that genes are located on chromosomes and that genes on the same chromosome are inherited together unless they are separated by crossing over. The phenotypes that are most frequently found in natural populations are designated as wild type. Phenotypes that differ from the wild type are mutants. Over the years, scientists working with *Drosophila* have published their results and saved stocks of mutants they have isolated. As a result, there is a wealth of information in the scientific literature about *Drosophila* genes and genetics. Furthermore, stock cultures of hundreds of different genetically pure strains bearing various mutations are available.

Drosophila develops by complete metamorphosis. Figure 1 provides a summation of the *Drosophila* life cycle.

Introduction:

This genetics investigation will run for several weeks. You will begin by observing the P generation of fruit flies. You will learn to distinguish between males and females and observe the wild type as well as three mutant phenotypes. The mutants will only differ from the wild types by one character.

Next you will observe the F1 generation offspring. These have just hatched and must be scored within 20 days after arrival. You will be responsible to accurately record the phenotypic numbers and determine whether if the trait is sex linked or autosomal.

Genetic information to keep in mind:

- Which allele is dominant or recessive?
- Is it a monohybrid or dihybrid?
- Is it sex linked?
- What can I predict for the F2 generation?

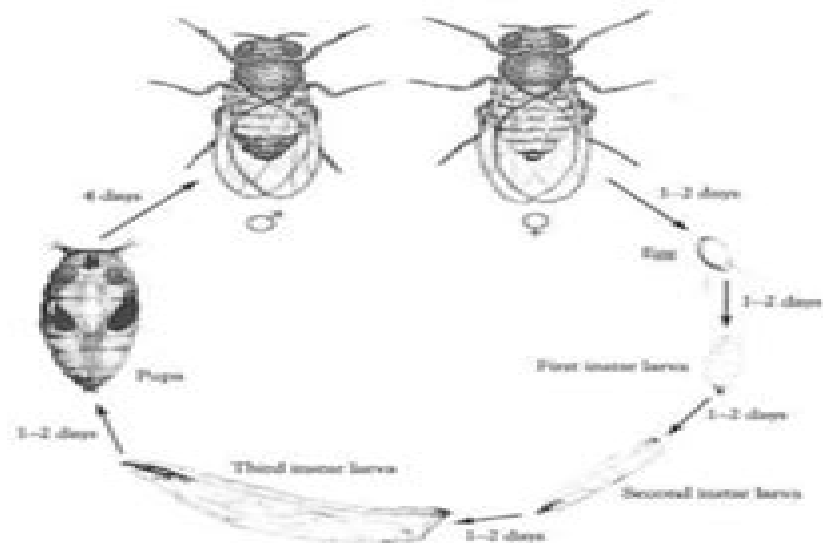


Figure 1. *Drosophila* life cycle

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Roman Wölfel



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