

Drosophila Genetics, Special Edition – v6

Save months of breeding with this versatile and simple to use software.

Product Features

Unlimited Generations and Unlimited Files in Each.	Auto-Counting Available as a Teacher Option.
Black-Line Masters Make Lesson Preparation Easy.	Reporting on Student Accuracy Makes Monitoring Simple.
7 Types of Inheritance	Integrated 'Construction Kit'
26 Mutant Genes Including Lethal	Load and Save Individual Flies for Testing.
Create Your Own Flies	Use a Created Fly Immediately as a Parent.

Grade Level

High School • College • University

Detailed Product Information:

Save months of breeding with this versatile and simple to use software. If you teach genetics by doing breeding experiments, you need to look at this software. Students will examine five types of genetic inheritance, calculate linkage distances, and investigate the inheritance of dominant, mutant, and lethal genes in *Drosophila melanogaster*. Teachers can design a fly which is heterozygous for some characteristics and homozygous for others. Students can then load the fly and conduct their own experiments to discover its genotype.

This breeding simulation is designed for senior students and encourages the development of skills in scientific method. As a teaching tool it may be used in a variety of teaching strategies.

Students visually count, categorize, and record the individual flies, making this a realistic science experience rather than a secondhand data exercise.

Teachers now have the option to allow the students to use an auto-count system to count up to 100,000 flies in seconds. This means that longer experiments, like linkage distance, can be done quickly.

Student reporting is now an option - students have to fill in the number and type of flies they observed before the program allows auto-counting. This provides the teacher with a report on the students accuracy while counting.

Integrated construction kit enables new flies to be created and used as parents in seconds.

Also includes a Teacher Resource document in pdf format - 84 reproducible pages contain 15 experiments to guide students through examples of single genes, double genes, sex-linked genes, incomplete sex-linked dominance, linked genes and linkage distance, dominant mutations, lethal genes, and multiple alleles.

The Fly editor is now an integrated part of the program.

Fly Construction Kit.

This section has 2 modes:

Student Mode - Construct homozygous flies with a mutation in up to 9 fly characteristics.

Teacher Mode - Select up to 2 mutant genes per characteristic as heterozygous or 1 as homozygous. Place the mutant gene on either chromosome.

Tangent Scientific

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Save each fly with one of 3 genotype display options:

Always: Display the genotype of the fly during breeding, provided the teachers has set this as an option.

Lock Code: Only displayed after a fly's code word has been entered. Good for classroom problem solving and practical tests.

Never: Excellent for school or home based assignments when the student has a long time to crack the flies code word.

System Requirements:

Windows:

Windows XP, 2000, NT or 98

Pentium III or better recommended

List Price:

Drosophila Genetics, Special Edition, WIN CD, Single User

Item: 99423101 Price: \$149.00

Drosophila Genetics, Special Edition, WIN CD, 5 User

Item: 99423105 Price: \$299.00

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About Tangent

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Previews

At your request software can be previewed and evaluated before you commit to the purchase – just by calling 1-800-363-2908. Previews are full, complete versions of the program that are made available to interested educators for a trial period of 15 days without the need for an official purchase order. Call for further details!

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