

BIO 181 General Biology

Chapter 15 Study Guide

Name: _____

Chapter 15: The Chromosomal Basis of Inheritance

Match the terms to the definitions below:

Aneuploidy
Barr bodies
Deletion
Duplication
Hemizygous
Inversion
Linked genes

Mutant
Polyploidy
Sex-linked genes
SRY gene
Translocation
Wild type
X-inactivation

Barr bodies	In mammalian females, one of the two X chromosome is randomly inactivated
Duplication	Breakage of a chromosome repeats a segment
Mutant	Traits that are alternatives to the wild type
Deletion	Breakage of a chromosome removes a fragment
Hemizygous	Having only one copy of an allele
Linked genes	Genes located on the same chromosome, inherited together
Translocation	Breakage of a chromosome moves a segment from one chromosome to another
SRY gene	Responsible for development of the testes in an embryo
Sex-linked genes	A gene located on either sex chromosome
Polyploidy	An organism has more than two complete sets of chromosomes
X-inactivation	A condensed X chromosome randomly inactivated during embryonic development
Inversion	Breakage of a chromosome reserves orientation of a segment
Aneuploidy	Offspring with an abnormal number of a particular chromosome
Wild type	The phenotype for a character most seen in the natural population.

1. In your own words – describe this portion of the experiment by Thomas Hunt Morgan (Fig. 15.3) *Data from T. H. Morgan, Sex-limited inheritance in Drosophila, Science 32: 120–122 (1910).*

Thomas Hunt Morgan used crosses like those used in Mendel's pea plant experiments to study the alleles of the fruit fly eye color gene. For analysis, he mated a white-eyed mutant male with a red-eyed wild-type female.

Experiment



Results



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