

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

X-inactivation	In mammalian females, one of the two X chromosome is randomly inactivated
Inversion	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
Barr bodies	A condensed X chromosome randomly inactivated during embryonic development
Inversion	Breakage of a chromosome reverses 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-linked inheritance in Drosophila, Science 32: 120–122 (1910).*

Thomas Hunt Morgan's experiment with fruit flies revealed that genes are located on chromosomes. He discovered that the gene for eye color in fruit flies is linked to the sex chromosome, as all white-eyed flies were males. This was a deviation from the expected 3:1 ratio according to Mendel's law of segregation, leading to the understanding of sex-linked traits.

Experiment



Results



Chromosomal Basis Of Inheritance Study Guide

Léo Pomar



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