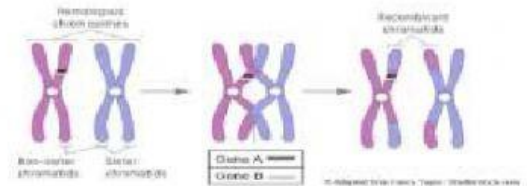


Learning Target: I can explain deviations from Mendel's model of the inheritance of traits.

AP Biology Topic 5.4 Non-Mendelian Genetics Video Notes

- Patterns of inheritance of many traits do not follow the _____
 - o Genes that are _____ on the same _____ and that are inherited together are known as _____
 - o Traits that are determined by genes located on _____ are known as _____
 - o Linked genes and sex-linked traits do not follow _____ associated with _____ and can be identified by _____.
- Genes that are adjacent and close to one another on the same chromosome may appear _____
 - o Linked genes are typically _____
 - o Less likely to be _____
- The probability that genetically linked genes will _____
As a unit can be used to _____
- Map distance tells _____
- Determined by how frequently a pair of _____
- Linked genes have a _____



Example:

- If a pair of linked genes has a recombination frequency of 5%, they are close together on the _____
- These linked genes are considered _____
- If a pair of linked genes has a recombination frequency of 30%, they are _____
- These linked genes are considered _____
- Map units can be used to determine the distance between _____

Some traits are determined by genes on sex chromosomes and are known as _____

- Sex-linked traits are located on _____
 - o Sex chromosomes determine _____
 - o Sex chromosomes are _____
 - o Sex chromosomes can have different _____
- Sex-linked traits _____

The pattern of inheritance of sex-linked traits can often be _____

- Sex-linked traits can be _____
 - o Sex-linked trait pedigrees have a _____
- In humans biological females contain _____
- Biological males contain _____

Created By: Chivas & Jordan Spivey

Learning Target: I can explain deviations from Mendel's model of the inheritance of traits.

- The Y chromosome carries very little _____; therefore, most sex-linked alleles are only carried on the _____
- Alleles are shown as a _____ on the _____
- Biological females can be considered _____ of a Recessive _____
- Biological males are more likely to have phenotypes associated With _____

Possible Genotypes	
$X^A X^A$	$X^A Y$
$X^A X^a$	
$X^a X^a$	$X^a Y$

The pattern of inheritance of sex-linked traits can often be predicted from _____

- Sex-linked recessive pedigree is a pattern of _____ with _____ parents.
- Biological males are more likely to be _____
- Sometimes biological female carriers are shown as _____
- Some _____ can be determined by looking at pedigrees

