Study Guide - Unit 5 AP Biology

Explain the connection between alleles and genetic variation and provide an example.

Created by Ria Wu

Genetics is the study of _____ and _____ _____.
Traits are passed from parent to offspring through _____
What are homologous chromosomes?
Provide three differences between asexual and sexual reproduction
The ___rd pair of chromosomes in a _____ are the ___-determining chromosomes

Match the correct genetic disorder to the characteristics

1. Trisomy 21
2. Turner's Syndrome
3. Cri du Chat
4. Klinefelter's Syndrome

A. Due to an extra X chromosome in the sex-determining chromosomes
B. A high pitched "cat-like" cry
C. People with this disorder are much more susceptible X-linked disorders
D. Due to an extra chromosome in the 21st chromosome pair

How many pairs of chromosomes are in a karyotype?
List three differences between gametic and somatic cells.
The end result of meiosis is _____ _____ _____ _____ _____ _____.
What is a tetrad?
Describe what the phase of meiosis the photos are depicting and describes what happens in that phase.

A homozygous trait means that the alleles are _____.
A heterozygous trait means that the alleles are _____.
Why did Mendel use true-breeding plants in his experiments?
Label the first pedigree. In the next pedigrees, label them as autosomal recessive, autosomal dominant, or sex-linked.

Match the correct Principles of Heredity to its descriptions

1. Law of Segregation
2. Law of Independent Assortment
3. Law of Dominance

A. This law states that the inheritance of one gene does not affect the inheritance of another gene.
B. This law states that alleles are segregated during the inheritance of alleles. A mother can only pass down one allele and a father can only pass down one allele for a specific trait.
C This law states that the dominant trait will cover the effects of the recessive trait.

Which of the following statements is correct?

A. Mitochondrial DNA is maternally inherited
B. Chloroplast DNA is maternally inherited
C. Chloroplast and Mitchondrial DNA is maternally inherited.
D. Mitochondrial and Chloroplast DNA is paternally inherited

Match the Degree of Dominance to its definition

1. Complete Dominance
2. Incomplete Dominance
3. Codominant Dominance

A. The dominant and recessive traits are both fully expressed in the phenotype.
B. The dominant trait completely masks the effects of the recessive allele.
C. The dominant trait and the recessive trait are expressed, but not fully

X-inactivation is when one of the ___ chromosomes in the ____ cell becomes _____ and turns into a ____ _____.
Skin Color is an example of _____ _____.
Genetic recombination is when an offspring is a _____ or _____ phenotyope from the _____.
Why are linked genes more likely to be parental types and why are unlinked genes more likely to be recombinant types?
What is the given value that Collegeboard provides for the p-value in a Goodness of Fit test?

A. 0.05 B. 0.01 C. 0.50 D. 0.10

The _____ of two organisms can be the same, but the _____ can impact the _____ of those organisms.
What do you do when the chi-square value is less than your critical value?

A. Reject null hypothesis B. Fail to reject null hypothesis C. Accept the null hypothesis D. Fail to reject null hypothesis

Match the disease to its characteristics (more than one answer)

1. Colorblindness
2. Hemophilia
3. Tay Sachs
4. Sickle Cell Anemia

A. Causes an abnormal amount of hemoglobin in an afflicted cell.
B. Causes a fatal buildup of fats or lipids in the brain
C. An inability to clot blood properly
D. An inability to see colors properly
E. Caused by a mutation in the HEXA gene
F. Caused by a mutation in the HBB gene

What was the answer to the example problem involving the multiplication rule?
What was the answer to the example problem involving the addition rule?
The multiplication rule finds the probability of two _____ events occuring.
The addition rule finds the probability of two _____ _____ events occuring.

Chapter 9 Ap Bio Study Guide Answers

Anthony S. Fauci

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