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REVIEW SHEET EXERCISE

45

Principles of Heredity

Introduction to the Language of Genetics

1. Match the key choices with the definitions given below.

Key: a. alleles d. genotype g. phenotype
b. autosomes e. heterozygous h. recessive
c. dominant f. homozygous i. sex chromosomes

- d: genotype 1. actual genetic makeup
i: sex chromosomes 2. chromosomes determining maleness/femaleness
f: homozygous 3. situation in which an individual has identical alleles for a particular trait
h: recessive 4. genes not expressed unless they are present in homozygous condition
g: phenotype 5. expression of a genetic trait
e: heterozygous 6. situation in which an individual has different alleles making up his genotype for a particular trait
a: alleles 7. genes for the same trait that may have different expressions
b: autosomes 8. chromosomes regulating most body characteristics
c: dominant 9. the more potent gene allele; masks the expression of the less potent allele

Dominant-Recessive Inheritance

2. In humans, farsightedness is inherited by possession of a dominant allele (A). If a man who is homozygous for normal vision (aa) marries a woman who is heterozygous for farsightedness (Aa), what proportion of their children would be expected to be farsighted? 50 %
3. A metabolic disorder called phenylketonuria (PKU) is due to an abnormal recessive gene (p). Only homozygous recessive individuals exhibit this disorder. What percentage of the offspring will be anticipated to have PKU if the parents are P/p and p/p ? 50 %
4. A man obtained 32 spotted and 10 solid-color rabbits from a mating of two spotted rabbits.
Which trait is dominant? spotted Recessive? solid-color
What is the probable genotype of the rabbit parents? Ss $\times$ Ss

Answers To Excercise 45 Principles Of Heredity

Jack E. Staub



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