

Chapter 11- Introduction to Genetics

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- ____ 1. Gregor Mendel used pea plants to study
 - a. flowering.
 - b. gamete formation.
 - c. the inheritance of traits.
 - d. cross-pollination.
- ____ 2. Offspring that result from crosses between true-breeding parents with different traits
 - a. are true-breeding.
 - b. make up the F₂ generation.
 - c. make up the parental generation.
 - d. are called hybrids.
- ____ 3. The chemical factors that determine traits are called
 - a. alleles.
 - b. traits.
 - c. genes.
 - d. characters.
- ____ 4. Gregor Mendel concluded that traits are
 - a. not inherited by offspring.
 - b. inherited through the passing of factors from parents to offspring.
 - c. determined by dominant factors only.
 - d. determined by recessive factors only.
- ____ 5. When Gregor Mendel crossed a tall plant with a short plant, the F₁ plants inherited
 - a. an allele for tallness from each parent.
 - b. an allele for tallness from the tall parent and an allele for shortness from the short parent.
 - c. an allele for shortness from each parent.
 - d. an allele from only the tall parent.
- ____ 6. The principle of dominance states that
 - a. all alleles are dominant.
 - b. all alleles are recessive.
 - c. some alleles are dominant and others are recessive.
 - d. alleles are neither dominant nor recessive.
- ____ 7. When Gregor Mendel crossed true-breeding tall plants with true-breeding short plants, all the offspring were tall because
 - a. the allele for tall plants is recessive.
 - b. the allele for short plants is dominant.
 - c. the allele for tall plants is dominant.
 - d. they were true-breeding like their parents.
- ____ 8. If a pea plant has a recessive allele for green peas, it will produce
 - a. green peas if it also has a dominant allele for yellow peas.
 - b. both green peas and yellow peas if it also has a dominant allele for yellow peas.
 - c. green peas if it does not also have a dominant allele for yellow peas.
 - d. yellow peas if it does not also have a dominant allele for green peas.
- ____ 9. When you flip a coin, what is the probability that it will come up tails?
 - a. 1/2

11 Introduction To Genetics Answers

Irvine Welsh, Prentice-Hall Staff



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Epigenetics, the Environment, and Children's Health Across Lifespans David Hollar,2016-02-08 This stimulating volume addresses vital questions about gene environment interactions as they affect cell health from the prenatal period through later life Beginning with a tour of epigenetic processes in the human body the book assembles current theoretical and empirical developments across the discipline among them transgenerational epigenetic inheritance the effects of maternal nutrition on epigenetic change and possible links between epigenetics and childhood obesity Public health and policy aspects of the field are discussed in depth with the understanding that much can be done to improve our epigenetic health as a species And in this vein contributors consider future possibilities such as the reprogramming of genes to reverse cancer and other diseases Included in the coverage The role of environmental epigenetics in perinatal and neonatal development The epigenetic biomarker H2AX from bench science to clinical trials What s the risk Dental amalgam mercury exposure and human health risks throughout the lifespan Post traumatic stress disorder neurological genetic and epigenetic bases Children s exposure to alcohol tobacco and drugs long term outcomes Ethical implications of epigenetics Epigenetics the Environment and Children s Health Across Lifespans brings real world knowledge and applications of this increasingly important field to public health practitioners maternal and child health researchers and environmental health experts

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