

Eukaryotic Gene Expression & DNA Technology Study Guide

Multiple Choice

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

- _____ 1. In a nucleosome, what is the DNA wrapped around?
- polymerase molecules
 - ribosomes
 - mRNA
 - histones
 - nucleolus protein
- _____ 2. Why do histones bind tightly to DNA?
- Histones are positively charged, and DNA is negatively charged.
 - Histones are negatively charged, and DNA is positively charged.
 - Both histones and DNA are strongly hydrophobic.
 - Histones are covalently linked to the DNA.
 - Histones are highly hydrophobic, and DNA is hydrophilic.
- _____ 3. Which of the following statements is *true*?
- Heterochromatin is composed of DNA, whereas euchromatin is made of DNA and RNA.
 - Both heterochromatin and euchromatin are found in the cytoplasm.
 - Heterochromatin is highly condensed, whereas euchromatin is less compact.
 - Euchromatin is not transcribed, whereas heterochromatin is transcribed.
 - Only euchromatin is visible under the light microscope.
- _____ 4. Muscle cells and nerve cells in one species of animal owe their differences in structure to
- having different genes.
 - having different chromosomes.
 - using different genetic codes.
 - differential gene expression.
 - having unique ribosomes.
- _____ 5. In which of the following would you expect to find the most methylation of DNA?
- tandem arrays for ribosomal genes
 - pseudogenes
 - inactivated mammalian X chromosomes
 - globin genes
 - transposons
- _____ 6. Genomic imprinting, DNA methylation, and histone acetylation are all examples of
- genetic mutation.
 - chromosomal rearrangements.
 - karyotypes.
 - epigenetic inheritance.
 - translocation.
- _____ 7. Approximately what proportion of the DNA in the human genome codes for proteins or functional RNA?
- 83%
 - 46%
 - 32%
 - 13%
 - 2%

Gene Technology Study Guide Answers

WJ Hussar



Gene Technology Study Guide Answers:

Decoding **Gene Technology Study Guide Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gene Technology Study Guide Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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