

STUDY GUIDE: CELLS TO ORGANISMS

7. Information and Its Expression in the Cell

7.3 The Expression of Biological Information

A Context for Understanding Gene Expression

When the organism expresses a set of genes, the result is the characteristics of that organism. These characteristics are called its phenotype.

The term "transcription" means the process of reading a base sequence in DNA to generate a complementary base sequence in RNA.

Why is the word "translation" used for protein production?

Information from DNA is transcribed into mRNA, which is then transported to ribosomes. This phrase describes the role of transcription in information expression.

Describe 2 major problems that transcription solves for the cell. Problem of selectivity; limitation of space

Transcription: Using Some Genes Now and Some Not at All

In the process of transcription, the base sequence in the molecule _____ is read by the molecule _____, an enzyme that makes RNA molecules.

Which RNA product helps the ribosome to recognize how and where to begin working?

Following the transcription event, list 4 separate parts of the overall processing of pre-mRNA in the cell's nucleus.

In the cell nucleus, a pre-mRNA has its introns removed by _____ enzymes.

Translation: Making Proteins

In the translation process, tRNA molecules are also called "adapter" molecules. Why? What is their function?

There are more than four kinds of amino acids in proteins. Each kind of amino acid must be coded for in mRNA. Thus, a short sequence of mRNA bases called a(n) _____ is used to code for each amino acid in the translation process.

What is a general name for a three-dimensional, folded molecule shaped like an "L," with an anticodon at one end and an amino acid attachment site at the other end?

Transferring correct amino acids to the ribosome during elongation is a good description of the role of _____ in the cell cytoplasm.

What is the role of tRNA synthetase in the cell's cytoplasm?

Study Guide Cell Organization Answers

AN Whitehead



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RF-425 Operation Manual 808 1. Second Vehicle Security Operation: Your remote transmitter can be utilized to control a second vehicle Autopage security system. To program the remote ... RF-425 - Autopage 4 Channel Vehicle Alarm Security ...

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