

RNA and Protein Synthesis Study Guide

Define the following

- Codon - 3 nucleotides that translate to an amino acid
- Amino acids - the monomer of proteins
- Methionine - the amino acid that starts all proteins
- Translation - RNA → proteins
- Transcription DNA → RNA
- RNA polymerase - enzyme that makes mRNA
- mRNA - messenger RNA, carries the genetic code that when translated, forms proteins

When you have an mRNA sequence, what would be the most useful first step to identify the amino acid coded by the sequence?

Separate the list of nucleotides into 3 letter "words"

If the DNA sequence is AGTCAATCCG, what would the mRNA strand be?

UCAGUUAGGC

Name 3 different types of mutations

Insertion of an extra nucleotide, deletion of a nucleotide, or substitution of a nucleotide

What is the goal of translation?

To make a protein

How many amino acids are coded for in the following sequence of mRNA?

GGCUGUAGCAAG

4 - GGC UGU AGC AAG

How many amino acids are used to make up all the proteins in the human body?

20 different amino acids make up all the proteins

Where does translation (RNA → proteins) take place? **ribosome**

Where does transcription (DNA → RNA) take place? **nucleus**

During transcription, what does the mRNA do?

It delivers DNA's instructions for making proteins

Where are proteins made in a cell?

Bio Protein Synthesis Study Guide Answers

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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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