

AP BIOLOGY STUDY GUIDE

CHAPTER 17 FROM GENE TO PROTEIN

PLEASE USE SEPARATE PAPER, USE SENTENCES SO YOU CAN ANSWER QUIZ QUESTIONS. THIS STUDY GUIDE IS NOT USED ON THE QUIZ

CONCEPT 17.1 Genes specify proteins via transcription and translation.

A. Before the 1920's, there was no solid evidence that genes specify certain proteins. How was the bread mold *Neurospora crassa* used to illustrate that genes lead to proteins? Include a sketch of Figure 17.2, and be sure to read the overview of the experiment.

B. Loosely, genes code for proteins. List at least 5 different classes of proteins, and give examples.

We will focus on genes that code for _____.

C. How is RNA different from DNA?

D. Summarize **transcription and translation**.

E. Where are codons located?

What does each stand for: **AUG, CAU, CAC, UAG?** _____

Codons are always read in which direction? _____

F. Because the genetic code is basically universal, bacteria can be programmed to make human proteins, such as _____. This universal characteristic says what about evolution?

CONCEPT 17.2 Transcription is the DNA-directed synthesis of RNA

G. What is the promotor and where is it located? Prokaryotes have ____ type of RNA polymerase and eukaryotes have _____, and that's all you need to know about those.

H. Transcribing mRNA is making a chain, so of course there needs to be a beginning, the building of the chain, and an end. These are called _____.

What is important to know about initiation?

What is important to know about elongation?

What is important to know about termination?

CONCEPT 17.3 Eukaryotic cells modify RNA after translation.

RNA processing modifies the ends and the interior of the primary RNA transcript.

I. Caps and Tails: What is the purpose of **5' ends and poly A tails**?

J. Split genes and splicing. What is meant by splicing, whether a video or a gene? How are introns different from exons?

K. What are snRNP'S?

Ap Biology Chapter 17 Reading Guide Answers

**Steven E. Lucking, Frank A.
Maffei, Robert F. Tamburro, Neal J.
Thomas**

Ap Biology Chapter 17 Reading Guide Answers:

AP Biology Study Guide Sundar Nathan,2009-11 Sundar Nathan received a Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

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