

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 snRNPs?

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Ian Pickup

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Resources in Education ,1989 **The United States Catalog** ,1921 **The United States Catalog** Eleanor E. Hawkins,1921 The Publishers Weekly ,1904 The United States Catalog; Books in Print January 1, 1912 Marion Effie Potter,1921 Respiratory Care ,1994 **The United States Catalog Supplement, January 1918-June 1921** Eleanor E. Hawkins,1921 The United States Catalog ,1918 **Publishers' Weekly** ,1904 Parents' Magazine & Better Homemaking ,1941 America s 1 family magazine **Readers' Guide to Periodical Literature** ,1963 Whitaker's Five-year Cumulative Book List ,1968 Journal of the National Education Association ,1940 **Readers' Guide to Periodical Literature** Bertha Tannehill,Anna Lorraine Guthrie,Neltje Marie Tannehill Shimer,1904 An author subject index to selected general interest periodicals of reference value in libraries **Bookseller** ,1967 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series Monthly Index of Russian Accessions Library of Congress. Processing Department,1966-07 Monthly List of Russian Accessions Library of Congress. Processing Department,1966-07 Monthly List ,1934 **Whitaker's Cumulative Book List** ,1983 The Book Review Digest ,2005

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