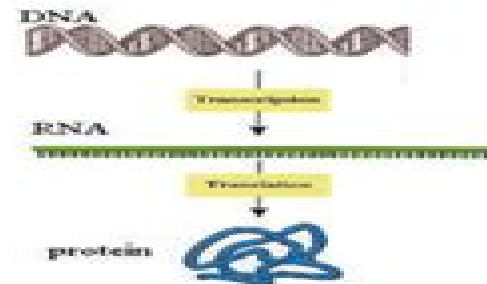


**Protein Synthesis Simulation Lab****Part I: Introduction**

DNA is a very long, thin molecule located in the nucleus. The DNA in one chromosome has 10s of millions of base pairs and hundreds or thousands of genes. Yet an individual cell will only use a small portion of those genes in its lifetime. Imagine a mechanic who spends a lifetime fixing nothing but cars, but he or she is required nonetheless to carry around an entire library of repair manuals for everything from kitchen sinks to washing machines to light fixtures to computers and so on – all information the mechanic will never be able to use because s/he's busy fixing cars.

Another peculiar thing about DNA is that it is located inside the nucleus, and pretty much stays inside the nucleus, yet the proteins that DNA helps to make are produced OUTSIDE of the nucleus. So how does the cell solve this problem? It sends a "messenger" from the nucleus to the ribosomes in the cytoplasm.

In a process called transcription, the DNA code is transcribed (copied) into mRNA, following rules similar to DNA replication we saw earlier (see below). mRNA moves out of the nucleus into the cytoplasm where it links up with ribosomes and begins churning out proteins.



Recall that DNA consists of a sugar-phosphate backbone with a nitrogenous base. There are 4 different bases in DNA abbreviated with the letters A, T, C, & G. The code contained in DNA derives from these 4 bases. We can think of them as letters in an alphabet that will spell different words. In a real language, words can be anywhere from 1 letter long (a, I) to an upper limit of 10-15 letters for functional, non-compound words.

In DNA code, a "word" is always 3 letters long and is called a "codon." Consider the following DNA segment:

|   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|--|
| A | T | C | G | T | C | C | A | A | A |  |
| T | A | G | C | A | G | G | T | T | T |  |

"ATC" is a codon. "GTC" is a codon. "CAA" is a codon. Etc.

In transcription, the DNA code is transcribed (copied) into RNA code, following rules similar to DNA replication we saw earlier EXCEPT that:

| DNA                 | RNA |
|---------------------|-----|
| <i>Matches with</i> |     |
| A.....              | U   |
| T.....              | A   |
| C.....              | G   |
| G.....              | C   |

1. Transcribe the following DNA sequence into mRNA. Draw a line separating each codon:

A T C G T C C A A A ....

# Protein Synthesis Simulation Lab Introduction Answer Key

**H Kauffman**



## **Protein Synthesis Simulation Lab Introduction Answer Key:**

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The book delves into Protein Synthesis Simulation Lab Introduction Answer Key. Protein Synthesis Simulation Lab Introduction Answer Key is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Protein Synthesis Simulation Lab Introduction Answer Key, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 2: Essential Elements of Protein Synthesis Simulation Lab Introduction Answer Key
  - Chapter 3: Protein Synthesis Simulation Lab Introduction Answer Key in Everyday Life
  - Chapter 4: Protein Synthesis Simulation Lab Introduction Answer Key in Specific Contexts
  - Chapter 5: Conclusion
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3. In chapter 2, the author will delve into the foundational concepts of Protein Synthesis Simulation Lab Introduction Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp Protein Synthesis Simulation Lab Introduction Answer Key in its entirety.
4. In chapter 3, the author will examine the practical applications of Protein Synthesis Simulation Lab Introduction Answer Key in daily life. This chapter will showcase real-world examples of how Protein Synthesis Simulation Lab Introduction Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Protein Synthesis Simulation Lab Introduction Answer Key in specific contexts. The fourth chapter will explore how Protein Synthesis Simulation Lab Introduction Answer Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Protein Synthesis Simulation Lab Introduction Answer Key. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Protein Synthesis Simulation Lab Introduction Answer Key.

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