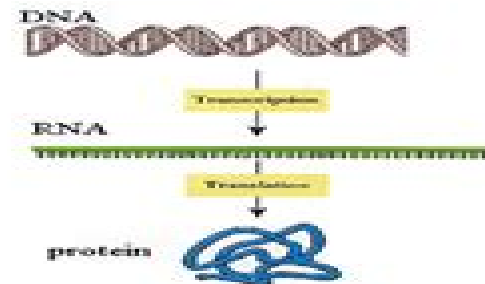


Protein Synthesis Simulation Lab**Part I: Introduction**

DNA is a very long, thin molecule located in the nucleus. The DNA in one chromosome has 10x 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 | |
| U | A | G | C | A | G | G | U | U | U | |

Protein Synthesis Simulation Activity Answers

Zhe Xu



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