

*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

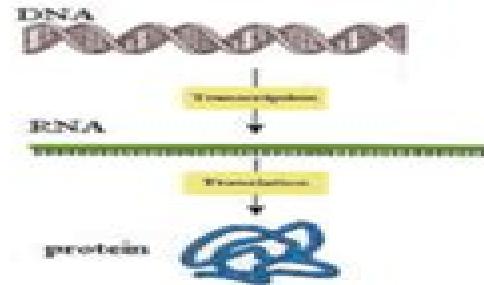
“ATC” is a codon. “GTC” is a codon. “CAA” is a codon. Etc.

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

DNA	RNA
Matches with	
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 Lab Simulation

Lei Huang

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Labster Virtual Lab Experiments: Basic Biology Sarah Stauffer, Aaron Gardner, Dewi Ayu Kencana Ungu, Ainara López-Córdoba, Matthias Heim, 2018-11-29 This textbook helps you to prepare for both your next exams and practical courses by combining theory with virtual lab simulations. With the Labster Virtual Lab Experiments book series you have the unique opportunity to apply your newly acquired knowledge in an interactive learning game that simulates common laboratory experiments. Try out different techniques and work with machines that you otherwise wouldn't have access to. In this volume on Basic Biology you will learn how to work in a biological laboratory and the fundamental theoretical concepts of the following topics: Lab Safety, Mitosis, Meiosis, Cellular Respiration, and Protein Synthesis. In each chapter you will be introduced to the basic knowledge as well as one virtual lab simulation with a true to life challenge. Following a theory section you will be able to play the corresponding simulation. Each simulation includes quiz questions to reinforce your understanding of the covered topics. 3D animations will show you molecular processes not otherwise visible to the human eye. If you have purchased a printed copy of this book you get free access to five simulations for the duration of six months. If you're using the e-book version you can sign up and buy access to the simulations at www.labster.com. Springer. If you like this book try out other topics in this series including Basic Genetics, Basic Biochemistry, and Genetics of Human Diseases. Please note that the simulations included in the book are not virtual reality (VR) but 2D virtual experiments.

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