

Chapter 8 Gene Expression: The Flow of Genetic Information from DNA to RNA to Protein

Synopsis:

This chapter describes how the information in DNA is converted into usable machinery (proteins) in the cell via the processes of transcription and translation. This flow of information is part of the central dogma of genetics. You need to become very comfortable with using the terms transcription and translation accurately. In transcription, DNA information is converted into RNA information. In translation, RNA information is converted into protein information. Work on developing some mental pictures for yourself so you can see the process occurring when you speak the words. The three letter DNA code and the correspondence between DNA sequence and protein sequence is described in this chapter. Tie together your knowledge of transcription/translation and the genetic code. This chapter contains many new vocabulary terms. The best way to know you have a good grasp on the terms is use the terms while pretending you are describing transcription, translation and the genetic code to another person.

Begin to introduce more inquiry into your learning process. For example, think about the components involved in transcription, RNA processing, and translation. How could they be affected by alterations (mutations) in any one of the components? Start thinking about how we know what we know and what evidence supports a particular view of how a process occurs.

Significant Elements:

After reading the chapter and thinking about the concepts, you should be able to:

- Identify open reading frames in a DNA sequence.
- Assign 5' and 3' end designations to DNA or RNA sequences.
- Describe the parameters for transcription - describe the enzymes (RNA polymerase) and proteins that play a role and what information in the DNA (promoter and terminator sequence) is important for their ability to function (**Feature Figure 8.11**).
- Identify the mRNA-like strand in the double-stranded DNA sequence either by knowing the sequence of the mRNA transcript or by looking for open reading frames.
- Describe the parameters for translation - describe the RNAs (rRNAs, tRNAs), proteins (aminoacyl synthetases) and RNA-protein complexes (ribosomes with the A, P and E sites, **Figure 8.23**) that are important and the information in the mRNA (ribosome binding site, start codon, stop codon) that is important for their ability to function (**Feature Figure 8.25**).

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