

Chapter 18: Regulation of Gene Expression

- 18.1 *Explain how the trp and lac operons function.*
- 18.2 *Describe the stages of eukaryotic gene expression and the regulation that can occur at each stage.*
- 18.3 *Define “noncoding RNAs” and explain how they participate in regulating gene expression, including their effects on chromatin.*
- 18.4 *Explain how differential gene expression leads to the different cell types in a multicellular organism.*
- 18.5 *Describe how cancer can result from genetic changes that affect cell cycle control.*

The overview for Chapter 18 introduces the idea that although an organism's cells have all genes in the genome, not all genes are expressed in every cell. What regulates gene expression? Gene expression in prokaryotic cells differs from that in eukaryotic cells. How do disruptions in gene regulation lead to cancer? This chapter gives you a look at how genes are expressed and modulated. Understanding gene expression will be a foundation for many other topics in biology and makes this a very important chapter for your careful study.

Study Tip: The concept that each gene requires a specific set of transcription factors and that this specificity can control the expression of genes is the central idea of this chapter. Use Figure 18.1 in your text to visualize how a gene can be turned on (expressed) or not turned on.

What is differential gene expression?

Concept 18.1 Bacteria often respond to environmental change by regulating transcription

LO 18.1: Explain how the trp and lac operons function.

1. All genes are not “on” all the time. Using the metabolic needs of *E. coli*, explain how this conserves energy resources.
2. What are the two main ways of controlling metabolism in bacterial cells? Which is a short-term response, and which is a long-term response?

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