

Name _____ Period _____

Chapter 18: Regulation of Gene Expression**Overview**

The overview for Chapter 18 introduces the idea that while all cells of an organism 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.

Concept 18.1 Bacteria often respond to environmental change by regulating transcription

1. All genes are not "on" all the time. Using the metabolic needs of *E. coli*, explain why not.
2. What are the two main ways of controlling metabolism in bacterial cells?
3. *Feedback inhibition* is a recurring mechanism throughout biological systems. A positive feedback loop causes a self-amplifying cycle where a physiological change leads to even greater change in the same direction. A negative feedback loop is a process in which the body senses a change, and activates mechanisms to reverse that change. In the case of *E. coli* regulating tryptophan synthesis, is it *positive* or *negative inhibition*? Explain your choice.
4. What is a *promoter*?
5. What is the *operator*? What does it do?
6. What is an *operon*? List the three components of an operon, and explain the role of each.

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R Barnett



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