

Name _____ Date _____ 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.

E. coli works by activating a metabolic pathway that makes tryptophan. This only happens when the human does not eat any meat. Once meat is eaten, *E. coli* stops to save its energy for when the meat is gone.

2. What are the two main ways of controlling metabolism in bacterial cells?

- Cells can adjust the activity of enzymes already present with chemical cues through feedback inhibition
- Cells can adjust the production level of the genes encoding the enzymes

3. *Feedback inhibition* is a recurring mechanism throughout biological systems. In the case of *E. coli* regulating tryptophan synthesis, is it *positive* or *negative inhibition*? Explain your choice.

It is *negative inhibition* because the accumulation of the product stops the enzyme from catalyzing it.

4. What is a *promoter*?

A *promoter* is a sequence of DNA nucleotides where RNA polymerase binds to in order to start transcription.

5. What is the *operator*? What does it do?

An *operator* is a sequence of nucleotides near the start of an operon where an active repressor can attach. It prevents RNA polymerase from attaching to the promoter and transcribing the genes of the operon.

6. What is an *operon*?

An *operon* is a unit of genetic function found in bacteria and phages. It includes a promoter, an operator, and the genes they control.

7. List the three components of an *operon*, and explain the role of each one.

- *Promoter*- starts transcription
- *Operator*- On/Off switch- synthesizes enzymes at once
- *Genes they control*- determines whether or not a certain amino acid will be coded for

8. How does a *repressor* protein work?

A *repressor* protein binds to the operator and blocks the attachment of RNA polymerase to the promoter, which prevents transcription of a gene.

9. What are *regulatory genes*?

Regulatory genes code for a protein that controls the transcription of another gene or group of genes.

10. Distinguish between *inducible* and *repressible operons*, and describe one example of each type.

- *Repressible operons* are usually on but can be inhibited when a specific small molecule binds allosterically to a regulatory protein. (ex: tryptophan operon)
- An *inducible operon* is usually off but can be stimulated when a specific small molecule interacts with regulatory proteins. (ex: lactose operon)

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Terry Brown



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Molecular Biology Nancy Lynn Craig, Orna Cohen-Fix, Gisela Storz, 2014 Molecular Biology Principles

of Genome Function offers a fresh distinctive approach to the teaching of molecular biology. It is an approach that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century—a discipline in which our understanding has advanced immeasurably but about which many intriguing questions remain to be answered. It is written with several guiding themes in mind. A focus on key principles provides a robust conceptual framework on which students can build a solid understanding of the discipline. An emphasis on the commonalities that exist between the three kingdoms of life and the discussion of differences between the three kingdoms where such differences offer instructive insights into molecular processes and components gives students an accurate depiction of our current understanding of the conserved nature of molecular biology and the differences that underpin biological diversity. An integrated approach demonstrates how certain molecular phenomena have diverse impacts on genome function by presenting them as themes that recur throughout the book rather than as artificially separated topics. At heart, molecular biology is an experimental science, and a central element to the understanding of molecular biology is an appreciation of the approaches taken to yield the information from which concepts and principles are deduced. Yet there is also the challenge of introducing the experimental evidence in a way that students can readily comprehend. *Molecular Biology* responds to this challenge with Experimental Approach panels which branch off from the text in a clearly signposted way. These panels describe pieces of research that have been undertaken and which have been particularly valuable in elucidating difference aspects of molecular biology. Each panel is carefully cross-referenced to the discussion of key molecular biology tools and techniques which are presented in a dedicated chapter at the end of the book. Beyond this, *Molecular Biology* further enriches the learning experience with full colour custom drawn artwork, end of chapter questions and summaries, relevant suggested further readings grouped by topic, and an extensive glossary of key terms. Among the students being taught today are the molecular biologists of tomorrow; these individuals will be in a position to ask fascinating questions about fields whose complexity and sophistication become more apparent with each year that passes. *Molecular Biology: Principles of Genome Function* is the perfect introduction to this challenging, dynamic but ultimately fascinating discipline.

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