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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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1. Understanding the eBook Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - The Rise of Digital Reading Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Personalized Recommendations
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc User Reviews and Ratings
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc and Bestseller Lists

5. Accessing Ap Biology Chapter 45 Reading Guide Answers Docstoc Free and Paid eBooks
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc Public Domain eBooks
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc eBook Subscription Services
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc Budget-Friendly Options
6. Navigating Ap Biology Chapter 45 Reading Guide Answers Docstoc eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc Compatibility with Devices
 - Ap Biology Chapter 45 Reading Guide Answers Docstoc Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Highlighting and Note-Taking Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Interactive Elements Ap Biology Chapter 45 Reading Guide Answers Docstoc
8. Staying Engaged with Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Chapter 45 Reading Guide Answers Docstoc
9. Balancing eBooks and Physical Books Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Chapter 45 Reading Guide Answers Docstoc
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Setting Reading Goals Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Fact-Checking eBook Content of Ap Biology Chapter 45 Reading Guide Answers Docstoc
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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