Name	Date	Period	
	Chapter 18: Regulation of Gene	Expression	_

#### Onerview

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.
- 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 operow?
- 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 tot the promoter, which prevents transcription of a gene.
- What are regulatory genes?
- Regulatory genes code for a protein that controls the transcription of another gene or group of genes.
- Distinguish between inducible and repressible operous, 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)

# **Biology Chapter 45 Guide Answers**

**S Ashworth** 

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# **Table of Contents Biology Chapter 45 Guide Answers**

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

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