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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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The Spectator, 1852 A weekly review of politics, literature, theology, and art.

Instincts by Design Ernest Howard Callahan, 2023-09-12 Inside *Instincts by Design* you will discover scientific mysteries of human and animal bodies only creation can explain. This fascinating full color book explores the instincts that are necessary for life, helpful for growth, and necessary for protection. *Instincts by Design* will keep readers captivated with answers to questions like these: How does a baby know when to inhale and exhale? How does a mother's milk change to meet the needs of her baby? Why is the instinct to sleep one that we cannot override? Why is it important that your tongue is the center of your taste receptors? Why is the hunger instinct crucial for survival? What instincts help brainless jellyfish hunt and kill their prey? Why would God give horses the ability to sleep standing up? How do more than 5000 species of birds journey thousands of miles every year? The key question for someone doubting there is a God is whether these complex sets of instructions could have appeared without a Programmer. *Instincts by Design* is the ProBible resource you will want to share with family and friends who need more evidence that they are fearfully and wonderfully made by the Almighty God. Christian readers will finish this book with an awe of the creative perfectionist God who loves us so much that he did all this for everyone.

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Services, 2002-10-01 This brand new Advanced Placement manual is the only book currently on the market that specifically prepares students for the AP Environmental Science Exam. It reviews all important environmental science concepts and problems including the flow of energy, its sources and conversions, the cycling of matter, geology and earth dynamics, the atmosphere, weather and climate, the biosphere, human history and global distribution. The book's added features include an overview of the test format and test-taking strategies. Two full length practice tests are presented with questions answered and explained.

Literary World; Choice Readings from the Best New Books, with Critical Reviews, 1889 "The" Illustrated London News, 1873

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