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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)

Ap Bio Ch 18 Reading Guide Answers

SJ Ball

Ap Bio Ch 18 Reading Guide Answers:

Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1) description of the procedural tasks commonly performed for the critically ill patient, 2) explanation of the most common pathophysiologic states encountered, and 3) description of specific disease entities with details of their differential diagnosis, diagnostic strategy and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader.

Chemistry John Christian Bailar, 1984 **Backpacker**, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine and the only magazine whose editors personally test the hiking trails, camping gear and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor industry awards are measured.

Whitaker's Cumulative Book List, 1984 **Whitaker's Five-year Cumulative Book List**, 1968 *T.P.'s Weekly*, 1909 *The Athenaeum*, 1856 **Monthly List**, 1934 *"The" Illustrated London News*, 1873 **Library Literature**, 1967 *Popular Mechanics*, 1945-11 Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high-tech lifestyle.

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Who's Who in the West, 1996-1997 Marquis Who's Who, Marquis Who's Who Staff, 1995-11 **Whitaker's Book List**, 1988 *Technical Book Review Index*, 1980

American Journal of Hospital Pharmacy ,1965

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- Chapter 3: Ap Bio Ch 18 Reading Guide Answers in Everyday Life
- Chapter 4: Ap Bio Ch 18 Reading Guide Answers in Specific Contexts
- Chapter 5: Conclusion

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