

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)

Ap Biology Chapter 17 Packet Answers

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Ap Biology Chapter 17 Packet Answers:

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Beshay,David D. Rahn,Debra L. Richardson,Barbara L. Hoffman,2016-11-05 Gain a better understanding of the basic principles of gynecology presented in Williams Gynecology Third Edition with this full color study guide Directly derived from the content of Williams Gynecology Third Edition this authoritative study guide is designed to assess your understanding and retention of the acclaimed evidence based coverage of the parent text Here you will find everything you need for an efficient chapter by chapter review of the text material Featuring a full color open design the study guide contains more than 2 000 review questions with clinical vignettes an answer key that includes corresponding textbook page numbers to aid further study and hundreds of precise images to sharpen your visual diagnosis skills The most rigorous gynecology summary available NEW Color images included as question material NEW Clinical case questions assess your ability to apply the content to real world patient encounters More than 2 000 evidence based multiple choice questions cover every major topic in clinical gynecology includes a mix of straight Q A and clinical vignettes Answer key provides the correct answer and cites page numbers in Williams Gynecology Third Edition to prompt in depth discussion and continued study Coverage spans reproductive endocrinology and infertility female pelvic medicine reconstructive surgery and gynecologic oncology

The Developing Person Through Childhood and Adolescence, Sixth Edition Kathleen Stassen Berger,2003 The new edition of the acclaimed classroom favorite for chronologically organized child development courses

Student Study Guide for Campbell's Biology Second Edition Martha R. Taylor,1990

Pediatric Critical Care Study Guide Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas,2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine It fills a void that exists in learning resources currently available to pediatric critical care

practitioners The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner *Science Books & Films* ,1989 Resources in Education ,1995

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