

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)

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AP - Biology Gabrielle I. Edwards, Marion Cimmino, 2001 General advice on test preparation and Advanced Placement Test question types is followed by extensive topic reviews that cover molecules and cells genetics and evolution and organisms and populations Four full length model AP Biology exams are given followed by answers and explanations for all questions Clinical Laboratory Animal Medicine Lesley A. Colby, Megan H. Nowland, Lucy H. Kennedy, 2019-10-11 The revised fifth edition of Clinical Laboratory Animal Medicine An Introduction is an accessible guide to basic information for conducting animal research safely and responsibly It includes a review of the unique anatomic and physiologic characteristics of laboratory animals husbandry practices and veterinary care of many animals frequently used in research including rodents rabbits ferrets zebrafish nonhuman primates and agricultural animals The updated fifth edition adds two new chapters on zebrafish and large animals new information on transgenic models and genetic editing and expanded coverage of environmental enrichment and pain management The book presents helpful tip boxes images and review questions to aid in comprehension and learning and a companion website provides editable review questions and answers instructional PowerPoints and additional images not found in the book This important text Provides a complete introduction to laboratory animal husbandry diseases and treatments Offers a user friendly format with helpful content that highlights important concepts Contains new knowledge relating to technical methodologies diseases drug dosages laws and regulations and organizations Covers information on regulations facilities equipment housing and research variables as well as veterinary care Includes new chapters on zebrafish and cattle sheep goats and pigs Written for veterinary technicians veterinary students practicing veterinarians and research scientists the fifth edition of Clinical Laboratory Animal Medicine continues to offer an essential guide to the ethical treatment and anatomic and physiological characteristics of research animals **Invitation to Biology** Helena Curtis, N. Sue Barnes, 1994-02-15 This clearly written accurate and well illustrated introduction to biology seamlessly integrates the theme of evolution while offering expanded up to date coverage of genetic engineering the immune response embryological development and ecological concerns In Needs of Survival Kaden McClain Ridge, 2024-12-09 In Needs of Survival centers on Atlas a high school student with a dark hidden life as a sex worker in a strip club As he navigates the dangers of his double existence facing both predatory adults and the pressures of being a teenager Atlas forms unexpected bonds with his new classmates who seek to help their new troubled friend In a world where survival often means compromising one's dignity Atlas must decide whether to trust someone with his secrets or continue bearing the weight of his struggles alone **Barron's how to Prepare for the Advanced Placement Examination AP Biology** Gabrielle I. Edwards, Marion Cimmino, 1992 This newly updated manual contains three model exams with answers and explanations plus a detailed review of college level biology that covers all AP exam topics Practical advice is also given for the essay question and short answer questions Biochemistry Terry Brown, 2016-09-22 Biochemistry is a major new

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