

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)

Chapter 39 Ap Biology Study Answers

Brendan G. Carr



Chapter 39 Ap Biology Study Answers:

Causes, Impacts and Solutions to Global Warming Ibrahim Dincer, Can Ozgur Colpan, Fethi Kadioglu, 2013-10-29

Global Warming Causes Impacts and Solutions covers all aspects of global warming including its causes impacts and engineering solutions Energy and environment policies and strategies are scientifically discussed to expose the best ways to reduce global warming effects and protect the environment and energy sources affected by human activities The importance of green energy consumption on the reduction of global warming energy saving and energy security are also discussed This book also focuses on energy management and conservation strategies for better utilization of energy sources and technologies in buildings and industry as well as ways of improving energy efficiency at the end use and introduces basic methods for designing and sizing cost effective systems and determining whether it is economically efficient to invest in specific energy efficiency or renewable energy projects and describes energy audit producers commonly used to improve the energy efficiency of residential and commercial buildings as well as industrial facilities These features and more provide the tools necessary to reduce global warming and to improve energy management leading to higher energy efficiencies In order to reduce the negative effects of global warming due to excessive use of fossil fuel technologies the following alternative technologies are introduced from the engineering perspective fuel cells solar power generation technologies energy recovery technologies hydrogen energy technologies wind energy technologies geothermal energy technologies and biomass energy technologies These technologies are presented in detail and modeling studies including case studies can also be found in this book

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