

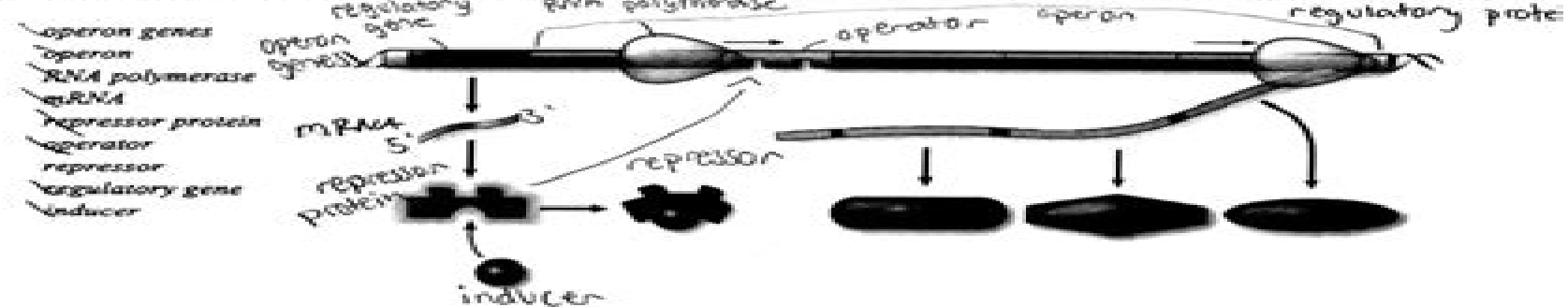
Chapter 15: Regulation of Gene Expression

Concept 15.1 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.
In *E. coli*, if the environment is lacking in the amino acid tryptophan, the cell responds by activating a metabolic pathway that makes tryptophan from another compound. Later, if the host eats a tryptophan rich meal, it will stop producing tryptophan.
2. What are the two main ways of controlling metabolism in bacterial cells? Tryptophan.
1. cells can adjust the activity of enzymes already present
2. cells can adjust the production level of certain 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.
Negative inhibition, involves an operon being switch off by active form of repressor protein
4. Enzymatic pathways involve a series of different enzymes that catalyze reactions in sequence, as is shown in Figure 15.2. In order for this to occur, the genes that code for these enzymes are coordinately controlled by being clustered in units known as operons. To better understand how an operon functions, begin by explaining the role of each of the following:

- a. promoter - serves all five genes, which together constitute a transcription unit
- b. operator - switch, segment of DNA, positioned within the promoter and control the access of RNA polymerase to the genes
- c. repressor - operon can be switched off by this protein, binds to the operator and blocks attachment of RNA polymerase, preventing transcription of genes
- d. regulatory genes - the repressor is the protein product, it has its own promoter

5. Distinguish between inducible and repressible operons, and describe one example of each type.
Repressible operon - transcription is usually on but can be inhibited when specific small molecule binds allosterically to a regulatory protein
Inducible operon - usually off but can be stimulated when a specific small molecule interacts with.
6. Label this sketch of the lac operon with the following terms. Know the function of each structure. interacts with.



Chapter 46 Ap Biology Reading Guide Answers

Wenbin Ji



Chapter 46 Ap Biology Reading Guide Answers:

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From Reader to Reading Teacher Jo Ann Aebersold,Mary Lee Field,1997-03-13 From Reader to Reading Teacher is a self contained student centred methods text that connects reading theory to practical classroom activities The paperback edition ideal for introductory courses on the teaching of second language reading connects reading theory to practical classroom activities Teachers begin by exploring their beliefs and assumptions about reading and analyzing their own reading strategies This leads to a critical examination of the pedagogical issues central to the reading classroom including selecting appropriate activities and effective lesson planning The Publisher ,1917 **Issues in Life Sciences: Molecular**

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Introductory Biological Statistics John E. Havel, Raymond E. Hampton, Scott J. Meiners, 2019-04-30 A thorough understanding of biology no matter which subfield requires a thorough understanding of statistics As in previous editions Havel and Hampton with new co author Scott Meiners ground students in all essential methods of descriptive and inferential statistics using examples from different biological sciences The authors have retained the readable accessible writing style popular with both students and instructors Pedagogical improvements new to this edition include concept checks in all chapters to assist students in active learning and code samples showing how to solve many of the book's examples using R Each chapter features numerous practice and homework exercises with larger data sets available for download at waveland.com

Auerbach's Wilderness Medicine E-Book Paul S. Auerbach, Tracy A. Cushing, N. Stuart Harris, 2016-09-21 Now in its 7th edition Auerbach's Wilderness Medicine continues to help you quickly and decisively manage medical emergencies encountered in any wilderness or other austere setting World renowned authority Dr Paul Auerbach and 2 new associate editors have assembled a team of experts to offer proven practical visual guidance for effectively diagnosing and treating the full range of issues that can occur in situations where time and resources are scarce This indispensable resource equips physicians nurses advanced practice providers first responders and rescuers with the essential knowledge and skills to effectively address and prevent injuries and illnesses no matter where they happen Brand new 2 volume format ensures all content is available in print and online to provide you easy access Face any medical challenge in the wilderness with expert guidance from hundreds of outstanding world experts edited by Dr Auerbach and 2 new associate editors Drs Tracy Cushing and N Stuart Harris New and expanded chapters with hundreds of new photos and illustrative drawings help increase your visual understanding of the material Acquire the knowledge and skills you need with revised chapters providing expanded discussions of high altitude medicine improvisation technical rescue telemedicine ultrasound and wilderness medicine education Ten new chapters cover Acute High Altitude Medicine and Pathophysiology High Altitude and Pre Existing Medical Conditions Cycles Snowmobiles and other Wilderness Conveyances Medical Wilderness Adventure Races MedWAR Canyoneering and Canyon Medicine Evidence Based Wilderness Medicine National Park Service Medicine Genomics and Personalized Wilderness Medicine Forestry and Earth Sciences 30 Expert Consult online videos cover survival tips procedural demonstrations and detailed explanations of diseases and incidents Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures images videos and references from the book on a variety of devices

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