

**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.



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**Neil Herring, David J. Paterson**



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