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~~My Science Eukaryotic~~

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of Gene Expression 1.

All genes are not “on” all the time. Using the metabolic needs of *E.*

*coli*, explain why not. If

the environment is

lacking in the amino

acid tryptophan, which

the *E. coli* bacterium

needs to survive, the cell

responds by activating a

metabolic pathway that

makes tryptophan from

another compound.

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any roles in regulation of gene expression in eukaryotes. Gene regulation. A cell can regulate the production of enzymes by feedback inhibition or by gene regulation. Operon model. One mechanism for control of gene expression in bacteria is the operon model. On-Off switch

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1- Activators bind to control elements. 2- DNA-bending protein causes enhancer to come into contact with promotor through mediator proteins. 3 - This complex then promotes the formation of a transcription initiation complex. Post-

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Transcriptional Of  
Regulation. Control of  
Gene expression after  
transcription has  
occured.

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Regulatory Gene. A  
gene that codes for a  
protein, such as a  
repressor, that controls  
the transcription of

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another gene or group of genes. -located a little bit off from the operon (located outside of the operon) and has its own promoter. -Expressed continuously.

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to Environmental  
Change by Regulating  
Transcription -Bacteria  
that express only the  
genes whose products  
are needed by the cell  
conserve resources and  
energy, causing these  
bacteria to be favored  
by natural selection.

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Gene Regulation. A  
bacterium often finds

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Gene  
Expression  
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itself in a changing  
environment Genetic  
regulation in bacteria is  
primarily focused on  
adapting the bacterium  
to its environment

Genes that are not  
required generally are  
not expressed unless  
environmental  
conditions change in a  
way that makes their  
expression useful

Depending on

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environment it will turn  
on certain genes or turn  
off certain genes.

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*Prokaryotic Gene*

*Regulation Chapter 18*

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Gene expression is the process by which the genetic code – the nucleotide sequence – of a gene is used to direct protein synthesis and produce the structures of the cell. Genes that code for amino acid

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sequences are known as 'structural genes'. Gene control regions: A promoter. A region a few hundred nucleotides 'upstream' of the gene (toward the 5' end).

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Natural selection has

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always favored bacteria that express only the genes whose products are needed by the cell. A metabolic pathway can be controlled on two levels. First, adjust the activity of enzymes already present. Fairly rapid response, which relies on the sensitivity of many enzymes to chemical cues that increase or decrease

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their catalytic activity

The activity of the first enzyme in the pathway is inhibited by the pathway's end product

...

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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



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### *Chapter 18: Regulation of Gene Expression*

Gene regulation refers to all aspects of

controlling the levels and/or activities of specific gene products.

- the gene product is either a protein or an RNA molecule
- regulation can occur at any stage of gene expression which involves
- accessibility

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of the gene itself  
(chromatin structure)

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of Gene Expression*

Regulation of Gene  
Expression; Campbell  
Biology Lisa A. Urry.  
Chapter 18 Regulation  
of Gene Expression.  
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Chapter Questions.  
02:48. Problem 1 If a

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particular operon Of  
encodes enzymes for  
making an essential  
amino acid and is  
regulated like the ...

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Expression 18.1  
Bacteria Often Respond  
to Environmental

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Change by Regulating  
Transcription metabolic  
Gene pathway can be  
Expression controlled on two levels

1. cells can adjust the  
activity of enzymes  
already present - relies  
on the sensitivity of  
many enzymes to  
chemical cues that  
increase or decrease  
their catalytic activity -  
activity of the first  
enzyme in the pathway

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is inhibited by  
tryptophan, the  
pathway's end product -  
if tryptophan  
accumulates in a cell ...

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Expression in

Prokaryotes What is

gene expression reliant

on for regulation?

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18: Regulation of Gene

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## Chapter 18

### Regulation of A Metabolic Pathway

Cells control metabolism by regulating enzyme activity or the expression of genes coding for enzymes.

Figure 18.2. In the pathway for synthesis of tryptophan (an amino acid), an abundance of

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