

Chapter 18: Regulation of Gene expression

Some enzymes (and other proteins) are needed all the time

... and some are not

- **Constitutive enzymes**
 - Needed all of the time and produced all of the time
- **Inducible enzymes**
 - Induced by the presence of their substrate
- **Repressible enzymes**
 - Repressed by the end product that they make

Many enzymes work in metabolic pathways

Metabolic pathways can be regulated in different ways

- Regulation of enzyme activity
- Regulation of enzyme production (**ie: Regulation of gene expression**)

This control helps to save **energy!**

Regulation of gene expression...

BOTH prokaryotes (bacteria) and eukaryotes use gene regulation to respond to changes in their environment (turn on genes only when they are needed)

But...regulation is different between **bacteria** and **eukaryotes**

Bacterial DNA is arranged such that genes for common functions are grouped together in operons

This is NOT true for eukaryotes

Chapter 18 Regulation Of Gene Expression Outline

M Tight



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