

Control of gene expression.

Chapter 11, pg 397-413

The term "gene expression" refers to the transcription of an mRNA and its translation to produce a protein. A gene is being expressed, or is "on", when it is producing its mRNA, it is repressed, or "off", when it is not.

It is estimated that there are between 25,000 and 35,000 genes in multicellular organisms such as humans, flies, and plants. The genes are sometimes "on", sometimes "off", and the regulation of their expression is precisely controlled. Different genes are expressed in different tissues, at different times of development and in response to different stimuli, such as nutrients, light, stress, infection.

How are genes turned off or turned on?

L. THE LAC OPERON was one of the first models of gene regulation that was deciphered. The regulation of this gene was studied by Francois Jacob and Jaques Monod, Nobel laureates.

The lactose operon is a cluster of three genes (**lac Z, Y, A**)

- a) **lac Z**: encodes Beta-galactosidase, an enzyme which breaks the β linkage in lactose sugar, a disaccharide to produce two monosaccharide sugars galactose and glucose.
- b) **lac Y**, encodes a permease which facilitates the transport of lactose across the plasma membrane into the cell.
- c) **lac A**, a transacetylase (not important for lactose metabolism).

A single mRNA is expressed which encodes all three genes. This is called a **polycistronic message**, because it encodes multiple proteins

- 1) The operon is not expressed in the absence of lactose.
- 2) The genes are expressed when lactose is added to the media.

This regulation of this gene has three elements:

- 1) The **lac repressor** is a protein which physically binds to the DNA upstream of the **lac Z** gene and inhibits its expression. The **lac repressor** is encoded by another gene, the **lac I** gene.
- 2) The **O, operator site** is the site in the DNA where the **lac I** repressor binds.
- 3) The **P, promoter** region of the DNA is upstream of the **O** site, is the binding site of the RNA polymerase protein. It is necessary for transcription.

The **lac repressor** - has two binding abilities (and two binding sites) one for DNA the other for lactose. When lactose is present, it binds to the repressor protein rendering it unable to bind the DNA, thus the gene becomes derepressed and expressed and the mRNA begins to be synthesized.

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