

AP Biology 031 - Gene Regulation Video Review Sheet

www.biologyclassroom.com/AP31-1-gene-regulation

A. Introduction:

- Gene regulation is how we express genes or not. How we work
- Terminology:
 - Regulatory Gene: secretes (codes for the formation of) a regulatory protein that regulates.
 - Regulatory sequence: an example is a promoter.
 - For gene regulation: it starts with DNA that makes mRNA which codes for proteins.
 - Though we can regulate a gene in any step along the way, most of the regulation is going to be from DNA to mRNA.
 - An example in us, is the TATA Box, a regulatory sequence that allows RNA polymerase to get on DNA.

B. The lac Operon:

- How many genes code for proteins to digest the lactose? 3
- What happens at the promoter? RNA polymerase binds on
- The operator site right between operator + gene
- The repressor protein binds to the operator
- If the repressor is attached operator then RNA polymerase can't get on
- The lactose fits into the repressor and it changes the shape of the protein
- Now RNA polymerase can transcribe the genes so that the lactose gets broken down into glucose and galactose.
- If lactose is now all gone, the repressor will bind back on the operator.

C. The trp operon:

- How many genes? 1
- When tryptophan (amino acid) is present, it fits into the repressor who then binds to the operator
- If you have no tryptophan, the repressor changes it shape, and it no longer binds to the operator

D. In eukaryotes, we primarily use transcription factors:

- Transcription factors can:
 - Allow RNA polymerase to get on
 - Some TFs will actually hold RNA polymerase in place
- When the DNA folds back, with more TEs, it then activates the RNA polymerase

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