

AP Biology 031 - Gene Regulation
Video Review Sheet
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A. Introduction:

- Gene regulation is how we express a gene or not how we make a protein
- 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

B. The lac Operon:

- How many genes code for proteins to digest the lactose? 3
- What happens at the promoter? the RNA polymerase grabs on
- The operator sits right between promoter + 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 a protein & breaks down lactose
- If lactose is now all gone, the repressor will bind back on the operator

C. The trp operon:

- How many genes? 5
- 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 attach
 - Some TFs will actually hold RNA polymerase in place
- When the DNA folds back, with more TFs, it then activates the RNA polymerase

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