Source: KBBiologyMasterIndex

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1 | Notes

1.0.1 | Overview

- Organisms turn genes on and off which is called Gene Expression
    - This can be done in response to external and internal signals
        - These signals are based off of environmental factors
    - This is also be done in order to specialize cells
        - Certain cells need certain genes to preform their specific role ### Differential Gene Expression
- Human Cells can express about 20% of it's protein coded genes at any given time
- Most cells contain the same genome
    - Each cell type must use specific parts of this genome
        - This is called Differential gene expression
    - Exception would be cells of the immune system
- Due to the importance of gene expression when it has issues it can affect the organism significantly
- Process of Gene expression in a Eukaryotic cell
    - Chromatin (DNA unpacking) –>
    - RNA processing –>
    - Transport to cytoplasm –>
    - Translation –>
    - Protein processing –>
    - Transport to cellular destination–>
- This process can often be equated to transcription for Prokaryote cells
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