Source: [KBBiologyMasterIndex]

0.1 | **#flo #ret**

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

1.0.2 | **Regulation of Chromatin Structure**

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