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->

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