

Notes - Importance of Mutations to Theory of Evolution

- We need to understand DNA and how it works, so we can understand how a little change (mutation) can have a drastic result.

3 Types of genes

- 1.) HOX genes - "director" genes. They tell switch genes when to turn on and off.
 - 2.) Switch genes - turn protein-coding genes on and off.
 - 3.) Protein coding genes - genes that code for the production of proteins.
- Understanding this (above) is important to being able to understand and demonstrate knowledge in how recent discoveries about DNA have allowed us to better understand how evolution has led to the large diversity of living organisms on earth.