**DNA and Heredity**

Where is your DNA?



**D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ N\_\_\_\_\_\_\_\_\_\_\_A\_\_\_\_\_\_\_\_\_**

DNA controls HEREDITY

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*

DNA is one of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **DNA Structure:**http://ircamera.as.arizona.edu/NatSci102/NatSci102/images/dna2.gif | **DNA Replication:**Cell , 5 Animation on Dna Replication : Simple Dna Replication Animation |

DNA is different in different organisms because….

**Process of Protein Synthesis:**



DNA is used as a CODE for

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

One \_\_\_\_\_\_\_\_\_\_\_, one \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gene:

DNA: \_TAC TCA CGT GTC ACT

RNA (codons): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Amino acids: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(use codon chart)

3 Types of RNA:

**m**RNA

**t**RNA

**r**RNA

Mutations:

* Point mutation
* Frameshift mutation