

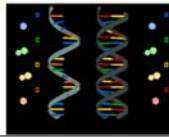
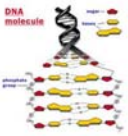
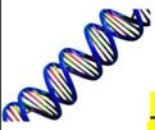
# Nucleic Acids

Made up of C, H, O, N, P

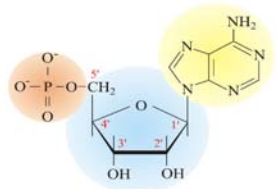
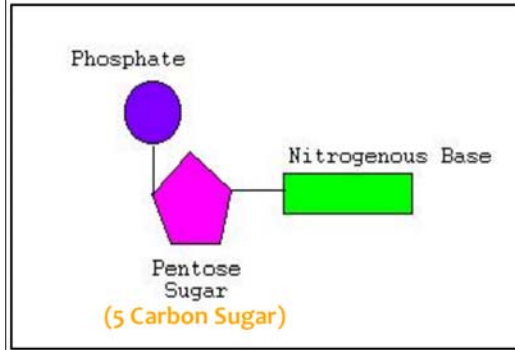
**Monomer** = nucleotide

1 Nucleotide:

- 5 Carbon Sugar  $C_5H_{10}O$
- Phosphate
- Nitrogen Base



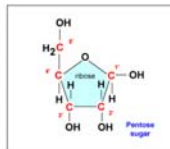
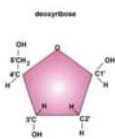
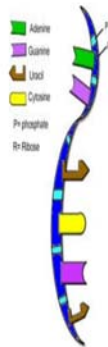
## MONOMER: NUCLEOTIDE



## 2 TYPES:

### DNA

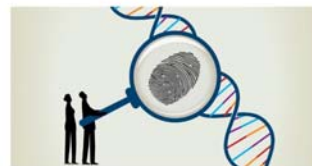
### RNA



## FUNCTIONS

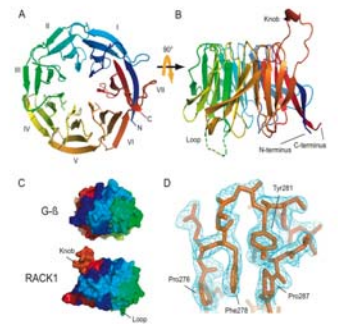
### DNA

Stores genetic information & info to replicate itself



### RNA

To make protein



# DNA

DeoxyriboNucleic Acid

Shape = Double Helix

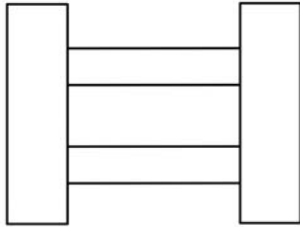
5-C Sugar = Deoxyribose



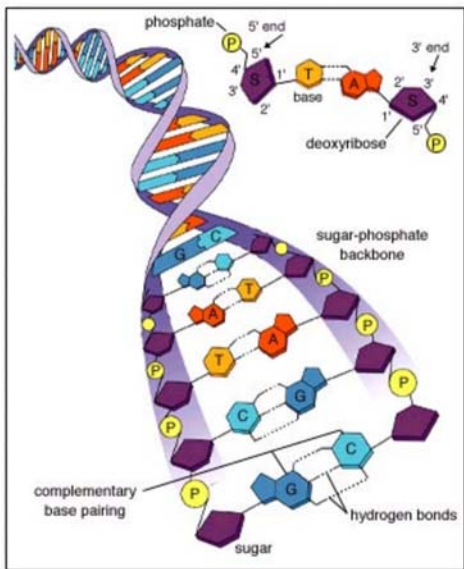
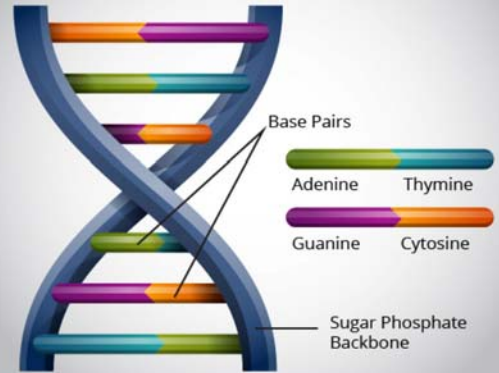
Nitrogen Bases: Adenine, Thymine, Guanine, Cytosine

A pairs with T (2 H bonds)

G pairs with C (3 H bonds)



# DNA Structure

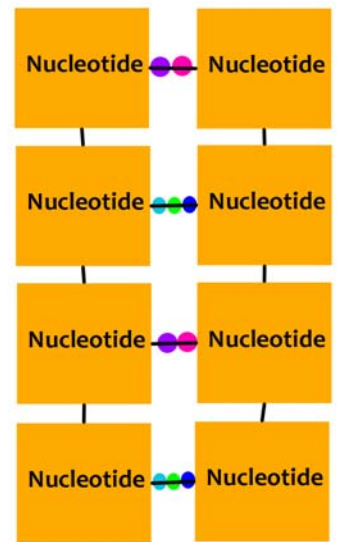


# DNA

MCHUMOR.com by T. McCracken



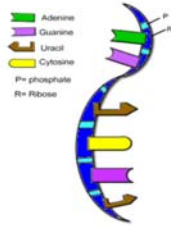
"Apparently your DNA is composed of battery acids instead of nucleic acids."



# RNA

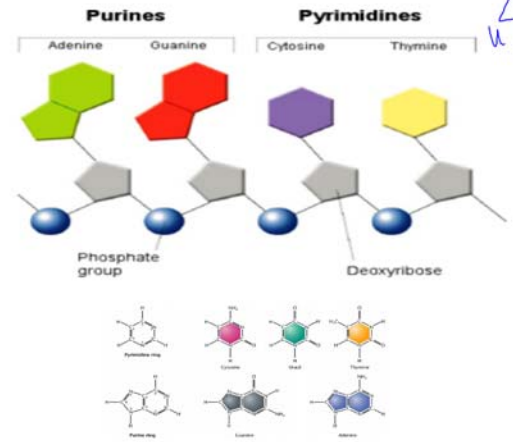
## RiboNucleic Acid

- Single Helix
- 5-C Sugar = Ribose
- N Bases = A, U, G, C
  - U = Uracil (only in RNA)



## BIOMED: NITROGEN BASES:

○ Purines: Double Ring    ○ Pyrimidines: Single Ring  
 ● A & G                      ● C, U, T



RNA

