

# Biology Chapter 4 Book Notes

## Section 1

- Nucleic acids are polymers, just as proteins are polymers
  - But instead of being assembled from amino acids, **nucleic acids** are made up of monomers called **nucleotides**.
- **3 components of a nucleotide:**
  - Phosphate group
  - 5-carbon sugar
  - Nitrogen containing base
    - **The phosphate group is bonded to the sugar molecule, which is bonded to the base**
- The sugar is the central component of the nucleotide
  - The five carbons in this sugar are labeled w/ numbers and prime symbols (') to provide a frame of reference
    - **Ex) the base is attached to the 1' carbon and the phosphate group is attached to the 5' carbon**
- Ribonucleotides are monomers of ribonucleic acid (RNA) and deoxyribonucleotides are the monomers of deoxyribonucleic acid (DNA)
  - Sugars: Ribose in ribonucleotides, deoxyribose in deoxyribonucleotides
    - **Deoxy- lacking in oxygen**
- Ribonucleotides and deoxyribonucleotides also differ in one of their nitrogenous bases
  - These bases belong to structural groups called **purines** and **pyrimidines**
    - Purines: adenine (A) and guanine (G)
    - Pyrimidines: cytosine (C), uracil (U), and thymine (T).
  - **Ribonucleotides use uracil (U), while deoxyribonucleotides use thymine (T).**
- Based on data from Stanley Miller and researchers who followed ([Chapter 2](#)), most biologists accept the idea that amino acids could have been synthesized early in Earth's history
  - Miller-like laboratory simulations have shown that nitrogenous bases and many different types of sugars, including ribose, can be synthesized readily under conditions that mimic the prebiotic soup
    - What they found was striking—the minerals preferentially bound to ribose, effectively enriching and concentrating ribose on their surface from a pool of diverse sugars
- Nucleotides polymerize via condensation reactions between the hydroxyl on the sugar component of one nucleotide and the phosphate group of another nucleotide
  - The reaction forms a new covalent bond between the nucleotides, and a molecule of water is released.
    - It's called a **phosphodiester linkage**, or a phosphodiester bond

# Biology Chapter 4 Section 4 Review

**Xiaolong Qi**



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