

WEEK 16 NUCLEIC ACID

- Nucleic acids are polymers that consist of nucleotide residues.
- Located in nuclei of cell.
- Hereditary determinants of living organisms.
- Elemental composition: carbon, hydrogen, oxygen, nitrogen and phosphorus.
- Friedrich Miescher isolated what he called 'nuclein' from the nuclei of pus cells.
- Nuclein was shown to have acidic properties, hence it was later called 'nucleic acid'.
- In 1889, Richard Altmann creates the term nucleic acid.
- In 1953, Watson and Crick presented the structure of DNA.

Nucleic Acid Structure

- Nucleic acids are polynucleotides.
- Their building blocks are nucleotides.
- Energy rich compounds that drive metabolic process in cells.
- Serve as chemical signals, key links in cellular systems that respond to hormones and other extracellular stimuli.
- Structural component of a number of enzyme cofactor and metabolic intermediates.
- Each nucleotide is formed by 3 units: phosphate, sugar, and a nitrogenous base.

Nucleotide

- Besides being the basic unit of genetic material for all living things, a nucleotide can have other functions as well.
- A nucleotide can be a base in another molecule, such as adenosine triphosphate (ATP), which is the main energy molecule of the cell. They are also found in coenzymes like NAD and NADP, which come from ADP; these molecules are used in many chemical reactions that play roles in metabolism.
- Another molecule that contains a nucleotide is cyclic AMP (cAMP), a messenger molecule that is important in

many processes including the regulation of metabolism and transporting chemical signals to cells.

- Nucleotides not only make up the building blocks of life, but also form many different molecules that function to make life possible.

Nucleotide Structure

- Nucleotide structure is simple, but the structure they can form together is complex.

- This molecule consists of two strands which wrap around each other, forming hydrogen bonds in the middle of the structure for support.



- Each nucleotide within has a specific structure which enables this formation.

1. Phosphate Group

- The phosphate group, is probably familiar from another important molecule ATP.
- Adenosine triphosphate, or ATP, is the energy molecule that most life on Earth relies upon to store and transfer energy between reactions.
- ATP contains three phosphate groups, which can store a lot of energy in their bonds.
- Unlike ATP, the bonds formed within a nucleotide are known as phosphodiester bonds, because they happen between the phosphate group and the sugar molecule.
- During DNA replication, an enzyme known as DNA polymerase assembles the correct nucleotide bases, and begins organizing them against the chain it is reading.
- Another protein, DNA ligase, finished the job by creating the phosphodiester bond between the sugar molecule of one base and the phosphate group of the next.
- This creates the backbone of a new genetic molecule, able to be passed to the next generation. DNA and RNA contain all the genetic information necessary for cells to function.

Nucleic Acid And Molecular Biology Vol 8

David Kirk



Nucleic Acid And Molecular Biology Vol 8:

The Enigmatic Realm of **Nucleic Acid And Molecular Biology Vol 8**: Unleashing the Language is Inner Magic

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