

Biochemistry Lesson 1: Carbohydrates

What are Carbohydrates?

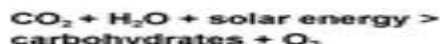
- A biomolecule = monosaccharide
- Most abundant, constitutes about 75% by mass of dry plant materials and found in fruits
- Major source of energy / ATP
- Formed during photosynthesis
- $C_6H_{12}O_6$
- Yields polyhydroxy aldehyde and polyhydroxy ketone both contains 2 or more hydroxyl groups

What are plants?

- They produce carbohydrates via photosynthesis

How does photosynthesis work?

- Carbon dioxide exhaled by humans, water from the soil coming from plants, and sunlight
- Carbohydrate is the product oxygen is byproduct



What is chlorophyll?

- Green pigment found in plants

What are the different functions of carbohydrates in plants?

1. **Cellulose**
 - Serve as a structural elements/component in plants
 - Isolated in stem, roots, different parts of a plant that can't be eaten by humans
 - most abundant naturally occurring polysaccharide
 - E.g., book, wood, clothing fabrics
2. **Starch**
 - Provide energy reserve for the plants / plant storage form
 - E.g., foods, bread, pasta
 - **Glycogen** - storage form in humans
 - o Human can't produce carbohydrates hence why we eat food

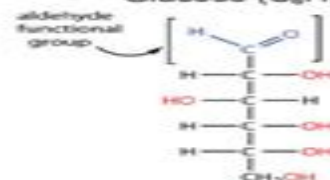
What are the different functions of carbohydrates in humans?

1. Carbohydrate oxidation provides energy/ATP
2. Provides a short term reserve in the form of glycogen

3. supply carbon atoms for the synthesis of biochemical substances e.g., protein, lipid, nucleic acids
4. Form part of the structural framework of DNA and RNA
 - Common denominator they contain ribose sugar
 - **Ribose sugar** - sugar backbone of DNA and RNA
5. Linked to lipid structural components of cell membrane
6. Linked to proteins function in cell-cell and cell-cell-molecule recognition process
 - **Glycolipid and glycoprotein** (cell to cell recognition) found at the cell membrane

What is polyhydroxy aldehyde?

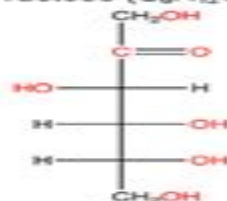
- Glucose ($C_6H_{12}O_6$)



Because glucose has an aldehyde functional group and several -OH (hydroxyl) groups, it is described as a polyhydroxy aldehyde.

What is polyhydroxy ketone?

- Fructose ($C_6H_{12}O_6$)



- **Isomers** - same molecular formula but different chemical structure
- They both are simple carbohydrates (fructose and glucose)

Classification of carbohydrates:

- Basis of molecular size
- All go through hydrolysis to produce monosaccharides (except monosaccharide ofc)

1. Monosaccharide

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