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
- $C_nH_{2n}O_n$
- 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

$CO_2 + H_2O$ + solar energy > carbohydrates + O_2

What is chlorophyll?
- Green pigment found in plants

What are the different functions of carbohydrates in plants?

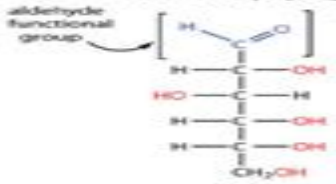
1. **Cellulose**
- Serve as a structural elements/component in plants
- Isolated in stem, roots, different parts of a plant that can't be eaten by humans
- most abundant naturally occurring polysaccharide
- *E.g., book, wood, clothing fabrics*

2. **Starch**
- Provide energy reserve for the plants / plant storage form
- *E.g., foods, bread, pasta*
    - **Glycogen** - storage form in humans
        - Human cant produce carbohydrates hence why we eat food

What are the different functions of carbohydrates in humans?

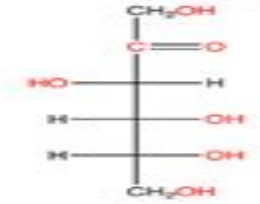
1. Carbohydrate oxidation provides energy/ATP
2. Provides a short term reserve in the form of glycogen
3. supply carbon atoms for the synthesis of biochemical substances *e.g., protein, lipid, nucleic acids*
4. Form part of the structural framework of DNA and RNA
    - Common denominator they contain 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 ($C_6H_{12}O_6$)



D-fructose (a polyhydroxy ketone)

- ***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 hydrolysis to produce monosaccharides (except monosaccharide ofc)

1. Monosaccharide

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