

# CHEMISTRY OF LIFE

## ORGANIC COMPOUNDS

→ carbon (C), hydrogen (H) & oxygen (O)

### CARBOHYDRATES

- Atoms of carbon, hydrogen & oxygen
- **MAIN FUNCTION** = provides energy to living organisms

#### CLASSES:

##### 1. MONOSACCHARIDES

- simple / single sugars (e.g., glucose) = basic units

TEST: Benedict solution / Fehling A & B solution [reddish brown]

##### 2. DISACCHARIDES

- union of single sugars = double sugars (e.g., sucrose) = TWO SUGARS

E.g.: Milk = lactose

Sugar cane = sucrose

#### GLUCOSE:



#### FRUCTOSE:



#### SUCROSE:



##### 3. POLYSACCHARIDES

#### STARCHES:

- Store energy in organisms: 100th glucose molecules connected
- Stored in PLANT CELLS = stored in liver & muscles

TEST: Iodine solution = blue-black

#### CELLULOSE:

- MAIN COMPONENT of plant cell walls [not in animals]
- Similar structure to starch BUT = cannot digest & obtain energy = Forms FIBER / coarseness in diet

TEST: Schultz solution = purple

#### GLYCOGEN:



### LIPIDS (FATS)

- Carbon, hydrogen and oxygen [sometimes also phosphorus (P)]

TEST: organic solvents

# Life Science Term4 Paper1

**Christian G. Meyer**



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