

Structure of H₂O
hydrogen bonding
Denser at 4°C



unit one guide

Biological molecules
proteins
nucleic acids

H₂O provides cushion, adhesion, surface tension, high specific heat, high heat of vaporization, excellent solvent, stable chemistry, low compressibility

THIS GONNE when ions → water expands due to hydrogen bonding, molecules want to stay together

hydrogen bonds require lots of energy to change state of matter

CONDENSATION → when two molecules → produce hydrogen and hydroxyl ions, releases H₂O

Hydroxyl → attracted to same
Hydrogen bond → attracted to other
Hydroxyl group → hydrogen bonding
Hydroxyl group → hydrogen bonding
Hydroxyl group → hydrogen bonding

C	H	N	O	P	S
Carbon	Hydrogen	Nitrogen	Oxygen	Phosphorus	Sulfur

more hydrogen bonding → protein formation
C → build biological molecules, cell formation
N → build proteins, nucleic acids
P → build nucleic acids + lipids
→ make up 98% of organisms

Carbohydrates ↓ C, H, O	Lipids ↓ C, H, O, P	Nucleic acids ↓ C, H, N, O, P	Proteins ↓ C, H, N, O, S
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Condensation synthesis → the removal of an H₂O molecule to bond monomers

Nucleic acid structure:

• One carbon sugar (deoxyribose/ribose), phosphate, nitrogenous base (A, T, C, G), exact copies of strands



Starch, glycogen
Glycogen → 1-4 glucose
Cellulose → 1-4 glucose
Chitin → 1-4 glucose

Proteins:

Specific order of amino acids → primary structure

→ 1 group interactions determine structure + function

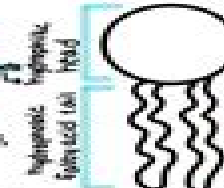


PROTEINS

• amino acids bond via a peptide bond (covalent) through dehydration synthesis
• R group change can cause a hydrophobic protein to lose the place of a hydrophilic protein

membranes

• made up of phospholipids
• create selectively permeable barrier
• contain phospholipids, cholesterol, and proteins



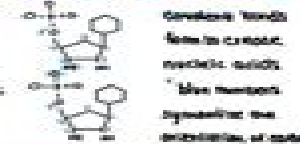
Phospholipid macromolecules
• differences in saturation determine structure and function
• Cells, sterols, phospholipids
• Saturated → no double bonds
• Unsaturated → has double bonds
• Lipids, steroids, phospholipids
• Steroids
• Steroids



Amino Acids:

• have directionality
• linear chains, connected by covalent bonds
• amino end and carboxyl end

DEHYDRATION SYNTHESIS



Chaperones:

• protein molecules that assist protein folding

NUCLEIC ACIDS

- add new nucleotides to the 3' end
- two nitrogenous bases: purine + pyrimidine
- pyrimidine is single ringed, purine is double
- antiparallel double helix
- 5' on phosphate end, 3' on hydroxyl end
- both base and back have nitrogenous bases (purines) + sugar-phosphate backbone

ANTIPARALLEL



ALDOSE VS KETOSE

• contains aldehyde functional group

ALPHA VS BETA

• contains ketone functional group



ALPHA VS BETA

• all monomers are in the same orientation

ALPHA VS BETA

• Every glucose monomer is upside down from its neighbor

PROTEIN STRUCTURE

- Primary: sequence of amino acids, specific order determine protein shape
- Secondary: how folding of chain into alpha helix and beta sheet occurs
- Tertiary: 3-D shape, hydrogen bonds, disulfide link, ionic bonds, hydrophobic int.
- Quaternary: interactions between multiple polypeptide chains

+ FUNCTION

- Enzymes → speeds up reaction rates in the cell
- Cell structure → part of the cellular membrane
- Communication between cells

DENATURATION:

- the protein starts to lose its shape/structure when (bonds break)
 - temperature change
 - pH of surrounding area
 - salt concentration

NH₂ = Amino
COOH = Carboxyl

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Mohamed Elzagheid



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