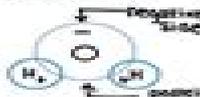


Structure of H₂O
hydrogen bonding
Denser at 4°C



unit one guide

Biological molecules
proteins
nucleic acids

H₂O provides cushion, adhesion, surface tension, high specific heat, high heat of vaporization, variable density, greater density when frozen.

THIS GENE: when ions → water expands due to hydrogen bonding, molecules next to each other.

hydrogen bonds require lots of energy to change state of matter

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

Hydroxyl → attracted to same surface
Hydrogen bond → between two hydroxyl groups
Hydroxyl group → surface of one sugar
OH → OH₂

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

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



Condensation synthesis → the removal of an H₂O molecule to bond monomers

Nucleic acid structure:

• the carbon sugar (deoxyribose/ribose), phosphate, nitrogenous base (A, T, C, G), exact shape of strand



Proteins:

Specific order of amino acids → primary structure

• R group interactions determine structure + function



PROTEINS

• amino acids bond via a peptide bond (covalent) through dehydration synthesis
• R group changes 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



LIPIDS

Phospholipid macromolecules

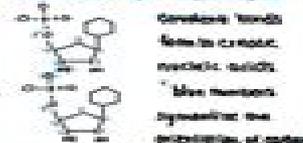
• differences in saturation determine structure and function
• Cells, sterols, phospholipids
• Saturated → no double bonds
• Unsaturated → has double bonds
• Lipids → hydrophobic, composed, make up cell membranes



Amino Acids:

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

DEHYDRATION SYNTHESIS



covalent bonds form to create nucleic acids
• the number specifies the structure of water

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 bond, ionic bonds, hydrophobic interactions
• **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



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 back and forth have nitrogenous bases (purines) + sugar-phosphate backbone

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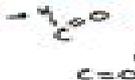


Chaperones:

• protein molecules that assist protein folding

ALDOSE VS KETOSE

• contains aldehyde functional group



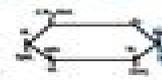
ALPHA VS BETA

• contains ketone functional group



ALPHA VS BETA

• all monomers are in the same orientation



• Every glucose monomer is upside down from its neighbor

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Sebastian Brünink



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Biomacromolecules Mohamed Elzagheid,2024-12-30 The second edition of the Macromolecular Chemistry broadens into two areas biomacromolecules Volume 1 and polymers Volume 2 Biomacromolecules covers carbohydrates lipids proteins nucleic acids their classifications and properties The first chapter looks at the structural formulas and cyclic forms of monosaccharides as well as their synthesis and breakdown Cyclization enolization isomerization tautomerization mutarotation and epimerization are all briefly described Examples of disaccharides and polysaccharides are also presented The second chapter covers triglycerides steroids vitamins and their constituents The third chapter examines the primary structure of proteins including amino acid properties peptide bond formation and peptide synthesis It also addresses secondary tertiary and quaternary structures The book concludes with a chapter on nucleic acids which covers the chemistry of nucleosides and oligonucleotides as well as topics such as genetic code DNA secret code Polymerase Chain Reaction and DNA fingerprinting

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Game of Fear: A gripping psychological thriller Gledé Browne Kabongo,2016-02-24 Sometimes good girls do very bad things Academic overachiever and popular good girl Abbie Cooper is used to being in control and strives to keep it that way As senior year at her elite New England private school kicks off she s focused on one goal getting into the Ivy League But even good girls have dark secrets One morning Abbie discovers a cryptic note in her locker I know what you did hypocrite Justice will be served The Avenger Then a photo arrives in the mail It captures in great detail the explosive secret she s kept hidden from everyone the shocking blunder that could get her expelled from Saint Matthews Academy and keep her out of the Ivy League for good Determined to protect her future and the people she loves Abbie is drawn into a diabolical game of blackmail cyber spying and deception For 50 000 the mystery girl known as The Avenger assures Abbie that her secret will remain safe There s only one problem The Avenger may not exist at all So who s stalking Abbie with anonymous text messages that disappear after they ve been read Who s out to ruin her and why To uncover the horrifying truth Abbie must play the game all the way to its stunning conclusion Provided by publisher

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 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books
 Biology Pamphlets ,1902 **Subject Index to Periodicals** ,1928 **Ladies in the Laboratory? American and British Women in Science, 1800-1900** Mary R.S. Creese,2000-01-01 A systematic survey and comparison of the work of 19th century American and British women in scientific research this book covers the two countries in which women of the period were most active in scientific work and examines all the fields in which they were engaged The field by field examination brings out patterns and concentrations in women s research in both countries and allows a systematic comparison of the two national groups Through this comparison new insights are provided into how the national patterns developed and what they meant in terms of both the process of women s entry into research and the contributions they made there Ladies in the Laboratory features a specialized bibliography of nineteenth century research journal publications by women created from the London Royal Society s Catalogue of Scientific Papers 1800 1900 In addition 23 illustrations present in condensed form information about American and British women s scientific publications throughout the nineteenth century This well organized blend of individual life stories and quantitative information presents a great deal of new data and field by field analysis its broad and methodical coverage will make it a basic work for everyone interested in the story of women s participation in nineteenth century science

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