

Biochemistry Lesson 1: Carbohydrates

What are Carbohydrates?

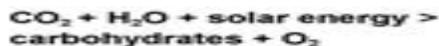
- A biomolecule = monosaccharide
- Most abundant, constitutes about 75% by mass of dry plant materials and found in fruits
- Major source of energy / ATP
- Formed during photosynthesis
- $C_nH_{2n}O_n$
- Yields polyhydroxy aldehyde and polyhydroxy ketone both contains 2 or more hydroxyl groups

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



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 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

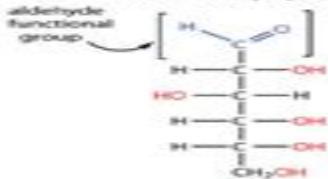
5. Linked to lipid structural components of cell membrane

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?

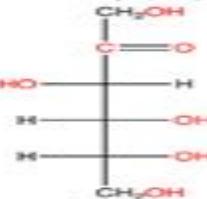
- Glucose ($C_6H_{12}O_6$)



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 hydrolysis to produce monosaccharides (except monosaccharide ofc)

1. Monosaccharide

Biochemistry Lesson 1 Staar Practice

Ian Pickup

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ENHANCED BY COMPANION ONLINE VIDEOS The information is delivered in a simple outline format that pinpoints the high yield information you need to know Each chapter is also presented as a lecture in video format so you can review the topic in real time and add additional notes as you learn each topic or review them later **Biochemistry Made Easy** Jon Adams, Biochemistry Made Easy unravels the complex and captivating world of biochemistry transforming it into a story rich with characters and narratives that make abstract concepts graspable Crafted for a diverse audience including students educators and professionals this book demystifies the dense terminology and intricate processes of biochemistry through deep analogies and vivid examples making the science accessible and engaging Chapter Contents Chapter 1 The Alphabet of Life Amino Acids Delve into the basic building blocks of proteins and how they shape the functions of living organisms Chapter 2 The Cellular Factory Enzyme Kinetics Explore the mechanisms that drive the rates of biochemical reactions crucial for understanding metabolic processes Chapter 3 The Energy Currency ATP and Bioenergetics Unpack the process of energy storage and expenditure that powers cellular functions Chapter 4 Lipids and Membranes The Body's Insulators Learn about the role of lipids in forming cellular barriers and facilitating energy storage Chapter 5 The Genetic Library DNA and Inheritance Investigate the molecular basis of genetics and how traits are passed from one generation to the next Chapter 6 The Central Dogma Transcription and Translation Understand the flow of genetic information from DNA to RNA to protein a cornerstone of molecular biology Chapter 7 Metabolic Pathways The Body's Highways Discover the routes taken by molecules in a cell to sustain life featuring key pathways like glycolysis and the Krebs cycle Chapter 8 Signaling Molecules The Communication Network Examine how cells communicate with each other to coordinate actions across an organism From amino acids to enzymatic reactions Biochemistry Made Easy is a journey through the fundamental building blocks of life explained in language that is accessible to all As a guide through this labyrinth of molecules and reactions the book employs relatable scenarios and real world applications that illuminate the wonders hidden within cells This book is not just an educational tool but an engaging compendium of knowledge that inspires readers to explore the marvels of metabolism the wisdom of DNA and the poetry of proteins Whether you are a novice or revisiting biochemistry with fresh eyes Biochemistry Made Easy serves as your compass in the metaphorical ecosystem of life's chemical language Dive into this narrative of biochemistry and experience the relevance beauty and intricacy of life's chemical conversations

Biochemistry: A Short Course John L. Tymoczko, Jeremy M. Berg, Gregory J. Gatto, Jr., Lubert Stryer, 2019-01-08
Derived from the classic text originated by Lubert Stryer and continued by John Tymoczko and Jeremy Berg Biochemistry A Short Course focuses on the major topics taught in a one semester biochemistry course With its brief chapters and relevant examples this thoroughly updated new edition helps students see the connections between the biochemistry they are studying and their own lives The focus of the 4th edition has been around Integrated Text and Media with the NEW SaplingPlus Paired for the first time with SaplingPlus the most innovative digital solution for biochemistry students Media

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Biochemistry and Genetics PreTest Self-Assessment and Review, Third Edition Golder N. Wilson, 2007-04-19 This one of a kind test prep guide helps you to test your knowledge of essential biochemistry and genetics concepts for the USMLE Step 1 practice with 500 USMLE Step 1 style questions with referenced answers review explanations for right and wrong answers and build confidence skills and knowledge

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