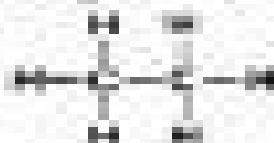


Carbohydrates, Lipids, and Nucleic Acids, PCMB

Carbons in Carbohydrates: Carbohydrates (sugars) contain carbon. The carbon skeleton (the carbon atoms) is the backbone of the molecule. It is composed of carbon atoms, each of which is bonded to hydrogen atoms. The carbon atoms are arranged in a chain, and the hydrogen atoms are attached to the carbon atoms. The carbon atoms are also bonded to oxygen atoms, which form the hydroxyl groups. The hydroxyl groups are attached to the carbon atoms, and the oxygen atoms are bonded to the hydrogen atoms. The carbon atoms are also bonded to other carbon atoms, forming a ring structure. The ring structure is the most common form of carbohydrates. The carbon atoms are also bonded to other atoms, such as nitrogen and sulfur, which form the nucleic acids and lipids.

Question 1:

1. Draw the structural formula of glucose. Show the different components of the molecule (carbohydrate, sugar, and nucleic acid). Label the structure.

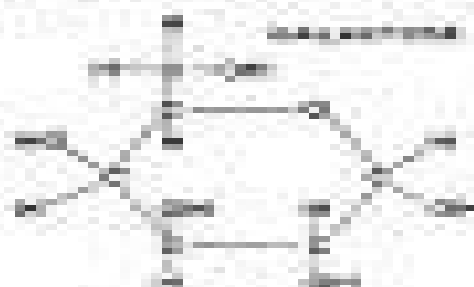


a. Draw the structure of the molecule (carbohydrate, sugar, and nucleic acid).

b. Label the structure of the molecule (carbohydrate, sugar, and nucleic acid).

Carbohydrates: Carbohydrates are organic compounds composed of carbon, hydrogen, and oxygen. They are the most abundant organic compounds on Earth. They are the primary source of energy for living organisms. They are also the building blocks of nucleic acids. Carbohydrates are classified into monosaccharides, disaccharides, and polysaccharides. Monosaccharides are the simplest form of carbohydrates. Disaccharides are composed of two monosaccharides. Polysaccharides are composed of many monosaccharides.

Monosaccharides: Monosaccharides are the simplest form of carbohydrates. They are composed of a single carbon atom. They are the building blocks of nucleic acids. They are also the primary source of energy for living organisms. They are classified into aldohexoses, aldotrioses, and aldotetroses. Aldohexoses are the most common form of monosaccharides. Aldotrioses are the simplest form of monosaccharides. Aldotetroses are the second simplest form of monosaccharides.



Question 2:

2. Draw the structure of the molecule (carbohydrate, sugar, and nucleic acid). Label the structure of the molecule (carbohydrate, sugar, and nucleic acid).

Pogil Macromolecules Proteins

Thomas E. Creighton



Pogil Macromolecules Proteins:

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complexes ; Fibrous proteins Miriam Balaban, 1981 **Macromolecular Protein Complexes IV** J. Robin Harris, Jon

Marles-Wright,2022-09-23 This book covers the latest findings of a wide variety of viral prokaryotic and eukaryotic macromolecular protein complexes and builds upon the solid macromolecular foundations established by previous volumes of the Subcellular Biochemistry series Thus an almost encyclopaedic coverage of the broad field of protein complex structure and function has been established The 17 interesting chapters included in this book have been organised into four sections Soluble Protein Complexes Membrane Protein Complexes Fibrous Protein Complexes and Viral Protein Complexes Significant topics present here are Fatty Acid Synthase the Fork Protection Complex Ribonucleotide Reductase the Kinetochore G proteins the FtsEX Complex the Kainate Receptor the Photosystem I antenna the Mycobacterial Arabinofuranosyltransferases the the Bacterial Flagellum the Actomyosin Complex Motile Cilia SLS Collagen Polymorphic Structures and the Reovirus Capsid and Polymerase Up dates expansion of chapter topics present in earlier volumes are now included in chapters here e g those on Ferritin like proteins and the Multi tRNA Synthetase The book is richly illustrated throughout the result of an impressive integration of structural data from X ray crystallography and cryo electron microscopy The functional aspects of protein protein interactions are also given a high priority *Proteins* Rudy Harm Haschemeyer,Audrey E. V.

Haschemeyer,1973 Macromolecular Protein Complexes II: Structure and Function J. Robin Harris,Jon

Marles-Wright,2020-01-14 This book follows on from Volume 83 in the SCBI series Macromolecular Protein Complexes and addresses several important topics such as the Proteasome Anaphase Promoting Complex Ribosome and Apoptosome that were not previously included together with a number of additional exciting topics in this rapidly expanding field of study Although the first SCBI Protein Complex book focused on soluble protein complexes the second Vol 87 addressed Membrane Complexes and the third Vol 88 put the spotlight on Viral Protein and Nucleoprotein Complexes a number of membrane virus and even fibrillar protein complexes have been be considered for inclusion in the present book A further book is also under preparation that follows the same pattern in an attempt to provide a thorough coverage of the subject Chapter 9 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) **Protein Structure**

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