

STUDY GUIDE: MOLECULES AND CELLS

4 Complexity II: Molecular Efficiency and Variety

4.3 Carbohydrates: Structure and Function

List the 4 classes of biomolecules and the class of monomers used as building blocks in the polymers of each class. Table 4.1, Figs 4.7, 4.11, 4.24, 4.35

What 3 kinds of atoms does a carbohydrate contain? Fig 4.7

Sugars

What 2 characteristics of sugars make them members of the class of “carbohydrates”? Review first paragraph in Section 4.3, (before “Sugars”)

Five of the six carbon atoms in a _____ molecule are typically found bonded together with an oxygen atom in a ring structure. Fig 4.7a

Name 2 general classes or kinds of sugar molecules. (first and third paragraphs in subsection)

Carbohydrate Polymers

What is the function of glycogen? (third paragraph in subsection)

4.4 Lipids: Structure and Function

Lipids are a class of molecules defined by their _____ in water. (first paragraph).

Other than for cooking French fries, list 3 biological functions of lipid molecules of various sorts. (one function for each of the sub-headings listed below)

The Wonderfully Functional Fat Molecule

The structure of a fat molecule (a polymer) consists of what three monomers covalently bonded to a glycerol molecule? Fig. 4.11

Unsaturated fats have a higher number of _____ between carbon atoms in their structures. Fig. 4.12

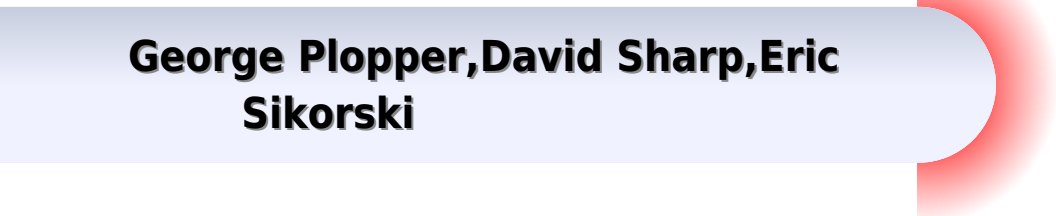
Animal fats tend to be _____ with hydrogen atoms. (fifth paragraph of this sub-section.)

The Amazing Phospholipid

In a phospholipid, what are the three (monomeric) parts that are attached to the glycerol molecule? Fig. 4.17

Molecules Of Cells Study Guide Answers

**George Plopper, David Sharp, Eric
Sikorski**



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