

Chapter 3- Biological Macromolecules

An organic molecule contains carbon, and has C-H bond

An organic molecule contains both carbon and hydrogen. Methane is a simple organic molecule

- Why are all organic molecules (and thus all living things) carbon based?
Carbon= small & versatile

Organic molecules have functional groups

- Functional groups: small groups of non-hydrogen atoms in organic molecules
- They make each organic molecule unique: protein vs. carbohydrate vs....

A monomer is a single unit of a carbohydrate, protein, or nucleic acid. Monomers join to form polymers

During dehydration

Note: carbohydrates contain only C, H, & O in a 1:2:1 ratio

Carbohydrates:

Carbohydrates include simple sugars and polysaccharides

Monosaccharides are the monomers of carbohydrates

Dehydration synthesis binds two monosaccharides, forming a disaccharide. Hydrolysis separates disaccharides into monosaccharides

Polysaccharides are long chains of carbohydrates

Cellulose: structure

Starch: energy

Glycogen: energy

Insulin= hormone from the pancreas

Glucagon= hormone from the pancreas

- Carbohydrates (sugars) and blood sugar levels
- Monosaccharides and disaccharides lead to quick, short increases in blood sugar
- Polysaccharides lead to slow, longer lasting increases or maintenance

Modern Biology Chapter Three Study Guide

**Carl C. Gaither, Alma E. Cavazos-
Gaither**



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The Complete PCAT Study Guide Pasquale De Marco,2025-07-10

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