

Chapter 5: The Structure and Function of Large Biological Molecules

- 5.1 Explain the processes by which polymers are assembled and disassembled.
- 5.2 Describe the structures and functions of simple and complex carbohydrates.
- 5.3 Describe the structures of three kinds of lipids and explain their functions.
- 5.4 List the main functions of proteins and describe the structures of amino acids and proteins.
- 5.5 Compare and contrast the structures of DNA and RNA and their component nucleotides, and describe the functions of these polynucleotides.
- 5.6 Explain how our ability to rapidly sequence DNA has affected biological inquiry and applications.

This chapter forms the heart of your study in the chemistry of biology. The macromolecules discussed here will be referenced numerous times in future chapters, so it is essential for you to master this information. As you study, consider the impact any change in the configuration of a molecule might have on its function at the cellular and organismal level.

Study Tip: Use Figure 5.1 in your text to develop an overall understanding of the role the four important classes of biological molecules play in the cell. The figure illustrates how the chapter is organized around the structure and function of macromolecules and summarizes what you will learn in this chapter. Return here when you finish this chapter, and you will appreciate how much information is conveyed in this single figure.

Concept 5.1 *Macromolecules are polymers, built from monomers*

LO 5.1: *Explain the processes by which polymers are assembled and disassembled.*

1. The most important large molecules found in all living things fall into just four main classes. Name them.
2. Circle the three classes that are called *macromolecules*. Define *macromolecule*.
3. What is a *polymer*? What is a *monomer*?

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