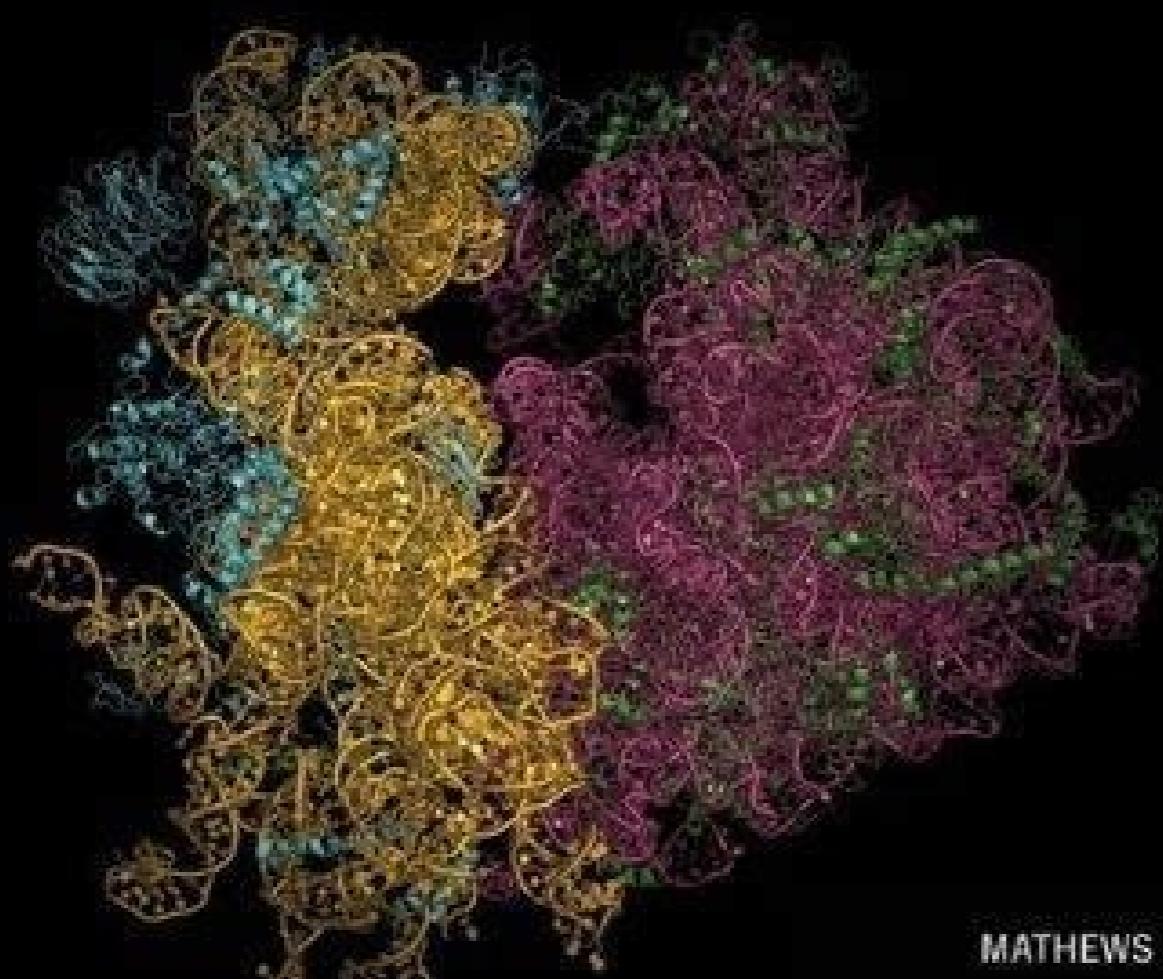


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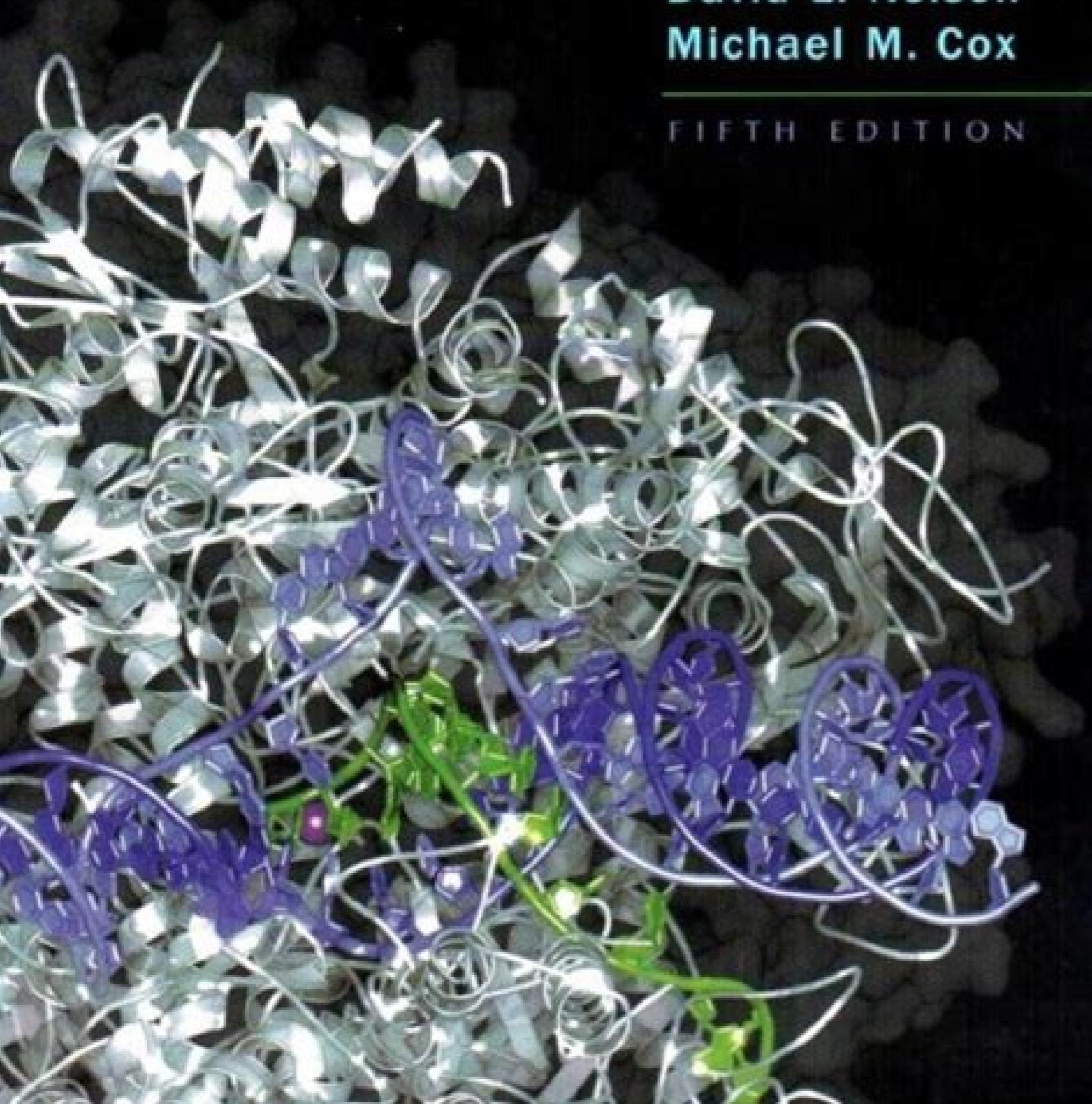


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Chapter 1 The Foundations of Biochemistry

Multiple Choice Questions

1. Cellular foundations

Pages: 2-4 Difficulty: 1 Ans: C
In a bacterial cell, the DNA is in the

- A) cell envelope.
- B) cell membrane.
- C) nucleoid.
- D) nucleus.
- E) ribosomes.

2. Cellular foundations

Page: 3 Difficulty: 1 Ans: E
A major change occurring in the evolution of eukaryotes from prokaryotes was the development of

- A) DNA.
- B) photosynthetic capability.
- C) plasma membranes.
- D) ribosomes.
- E) the nucleus.

3. Cellular foundations

Page: 3 Difficulty: 1 Ans: B
In eukaryotes, the nucleus is enclosed by a double membrane called the

- A) cell membrane.
- B) nuclear envelope.
- C) nucleolus.
- D) nucleoplasm.
- E) nucleosome.

4. Cellular foundations

Page: 4 Difficulty: 1 Ans: C

The dimensions of living cells are limited, on the lower end by the minimum number of biomolecules necessary for function, and on the upper end by the rate of diffusion of solutes such as oxygen. Except for highly elongated cells, they usually have lengths and diameters in the range of

- A) 0.1 μm to 10 μm.
- B) 0.3 μm to 30 μm.
- C) 0.3 μm to 100 μm.
- D) 1 μm to 100 μm.
- E) 1 μm to 300 μm.

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The GTPase switch

Regulation of epinephrine signaling

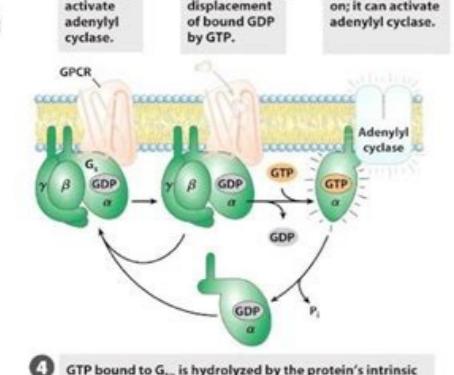


Figure 1.12 Regulation of G-protein signaling.

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Freeman and Sapling Learning have teamed up to provide the book's richest, most completely integrated text/media learning experience yet, through an extraordinary new online resource: SaplingPlus. Preface With the advent of increasingly robust technologies that provide cellular and organismal views of molecular processes, progress in biochemistry continues apace, providing both new wonders and new challenges. The image on our cover depicts an active spliceosome, one of the largest molecular machines in a eukaryotic cell, and one that is only now yielding to modern structural analysis. It is an example of our current understanding of life at the level of molecular structure. The image is a snapshot from a highly complex set of reactions, in better focus than ever before. But in the cell, this is only one of many steps linked spatially and temporally to many other complex processes that remain to be unraveled and eventually described in future editions. Our goal in this seventh edition of Lehninger Principles of Biochemistry, as always, is to strike a balance: to include new and exciting research findings without making the book overwhelming for students. The primary criterion for inclusion of an advance is that the new finding helps to illustrate an important principle of biochemistry. With every revision of this textbook, we have strived to maintain the qualities that made the original Lehninger text a classic: clear writing, careful explanations of difficult concepts, and insightful communication to students of the ways in which biochemistry is understood and practiced today. We have coauthored this text and taught introductory biochemistry together for three decades. Our thousands of students at the University of Wisconsin–Madison over those years have been an endless source of ideas on how to present biochemistry more clearly; they have enlightened and inspired us. We hope that this seventh edition of Lehninger will, in turn, enlighten current students of biochemistry. Table of Contents of Lehninger Principles of Biochemistry The foundations of biochemistry. Structure and catalysis. Water/Amino acids, peptides, and proteins. The three-dimensional structure of proteins. Protein function. Carbohydrates and glycobiology. Nucleotides and nucleic acids. DNA-based information technologies. Lipids. Biological membranes and transport. Biosignaling. I. Bioenergetics and metabolism. Bioenergetics and biochemical reaction types. Glycolysis, gluconeogenesis, and the pentose phosphate pathway. Principles of metabolic regulation. The citric acid cycle. Fatty acid catabolism. Amino acid oxidation and the production of urea. Oxidative phosphorylation. Photosynthesis and carbohydrate synthesis in plants. Lipid biosynthesis. Biosynthesis of amino acids, nucleotides, and related molecules. Hormonal regulation and integration of mammalian metabolism. III. 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