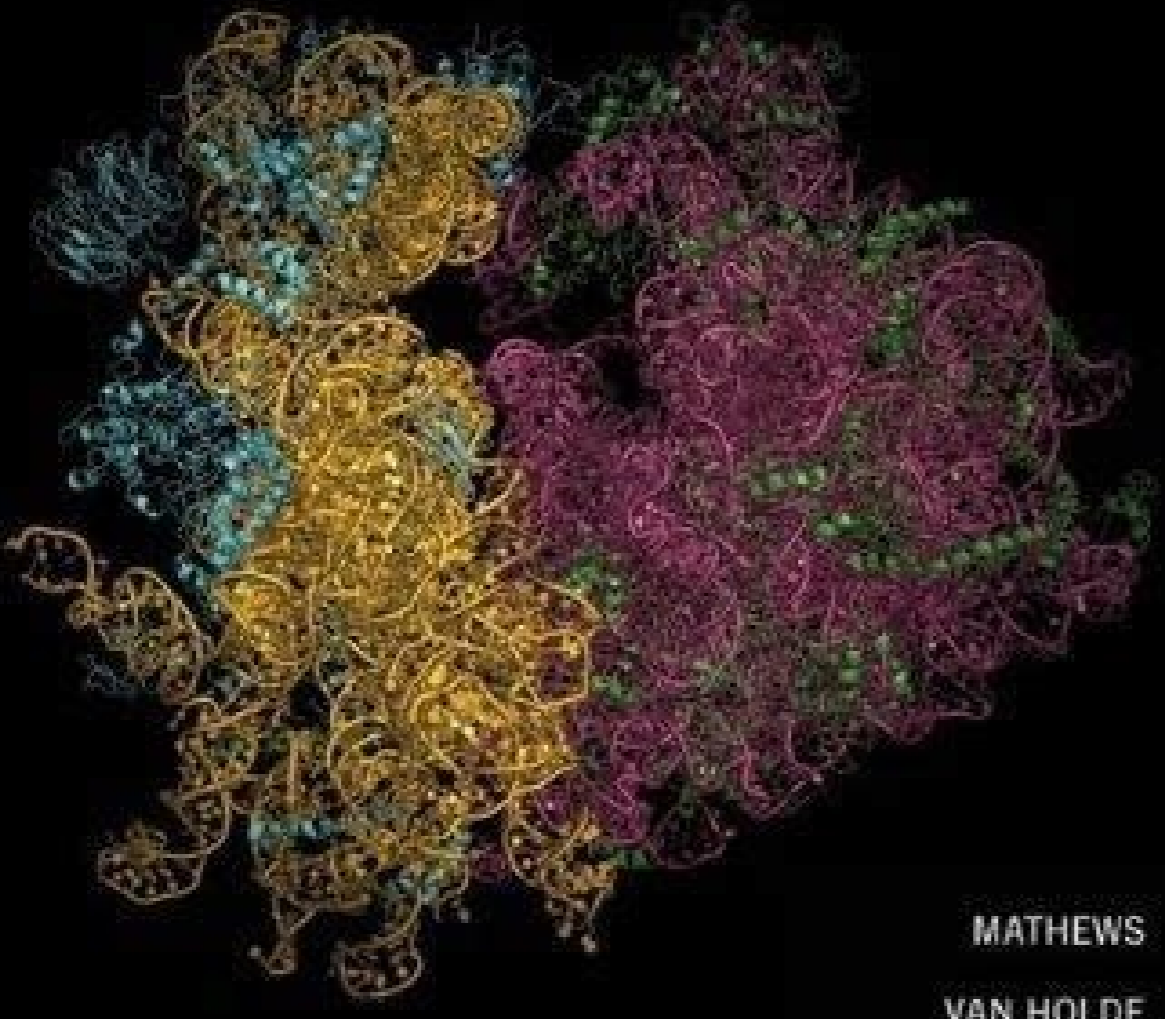


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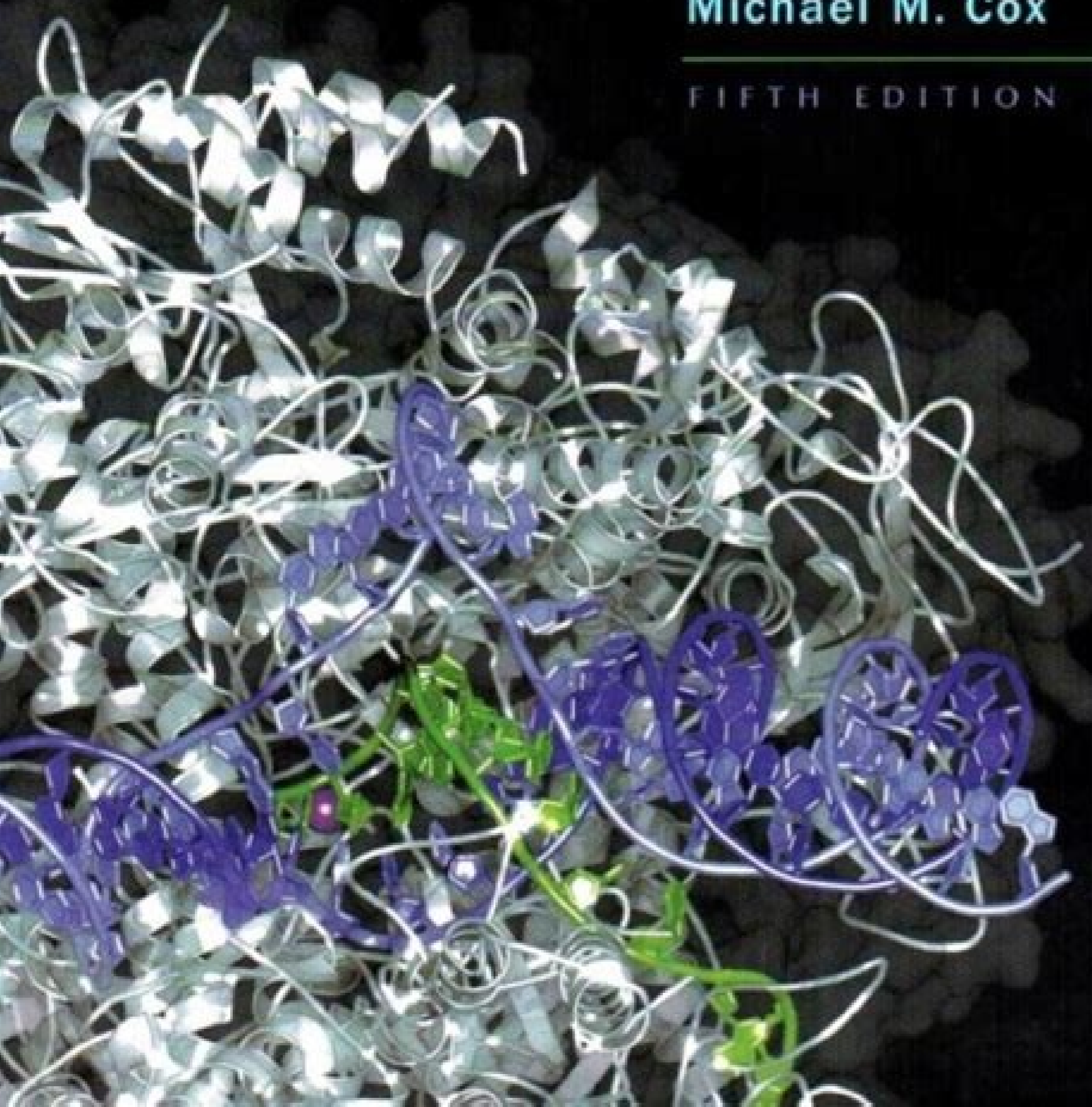


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# LEHNINGER PRINCIPLES OF BIOCHEMISTRY

David L. Nelson  
Michael M. Cox

FIFTH EDITION



# LEHNINGER PRINCIPIOS DE BIOQUÍMICA

David L. Nelson  
Michael M. Cox

QUINTA EDICIÓN

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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.

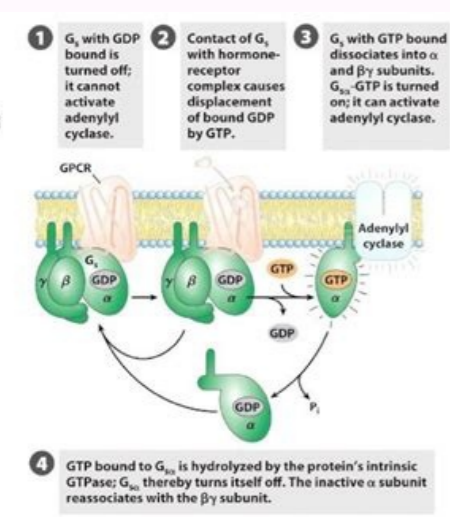
Except for highly elongated cells, they usually have lengths and diameters in the range of

- A) 0.1  $\mu\text{m}$  to 10  $\mu\text{m}$ .
- B) 0.3  $\mu\text{m}$  to 30  $\mu\text{m}$ .
- C) 0.3  $\mu\text{m}$  to 100  $\mu\text{m}$ .
- D) 1  $\mu\text{m}$  to 100  $\mu\text{m}$ .
- E) 1  $\mu\text{m}$  to 300  $\mu\text{m}$ .

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### The GTPase switch

#### Regulation of epinephrine signaling





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