



# Biochemistry: The Molecular Basis of Life

## Updated Fifth Edition

*Trudy McKee, James R. McKee*

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# Biochemistry: The Molecular Basis of Life Updated Fifth Edition

Trudy McKee, James R. McKee

**Biochemistry: The Molecular Basis of Life Updated Fifth Edition** Trudy McKee, James R. McKee  
**In one semester: The coverage you want. The relevance your students need.**

*Biochemistry: The Molecular Basis of Life* is the ideal text for students who do not specialize in biochemistry but who require a strong grasp of biochemical principles. The goal of this edition has been to enrich the coverage of chemistry while better highlighting the biological context. Once concepts and problem-solving skills have been mastered, students are prepared to tackle the complexities of science, modern life, and their chosen professions.

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Biochemistry: The Molecular Basis of Life, Updated Fifth Edition  
by Trudy McKee and James R. McKee

## **DISTINCTIVE FEATURES**

**A Review of Basic Principles.** To ensure that all students are sufficiently prepared for acquiring a meaningful understanding of biochemistry, the first four chapters--now streamlined for easier coverage and self-study assessment--review the principles of relevant topics such as organic functional groups, noncovalent bonding, thermodynamics, and cell structure.

**Chemical and Biological Principles in Balance.** Comprehensive coverage offers each instructor the flexibility to decide how much chemistry or biology he/she would like to present. Chemical mechanisms are always presented within the physiological context of the organism.

**Real-World Relevance.** Because students who take the survey of biochemistry course come from a range of backgrounds and have diverse career goals, the updated fifth edition consistently demonstrates the fascinating connections between biochemical principles and the fields of medicine, nutrition, agriculture, bioengineering, and forensics.

### **The Most Robust Problem-Solving Program Available.**

\* In-chapter "Worked Problems" illustrate how quantitative problems are solved and provide students with opportunities to put their knowledge into action right when new concepts are introduced.

\* Dozens of "Questions" are interspersed throughout the chapters, getting students critically thinking about high-interest topics.

\* Finally, hundreds of multiple-choice and short-answer questions at the end of the chapters test students' knowledge, develop their conceptual understanding, and encourage them to apply what they have learned.

**Simple, Clear Illustrations.** Biochemical concepts often require a high degree of visualization, and the McKee and McKee art program brings complex processes to life. The book includes 700+ full-color figures, many newly enhanced for a more vivid presentation in three dimensions and consistent scale and color for chemical structures.

**Currency.** The updated fifth edition has been extensively updated with recent developments in the field, while remaining focused on the "big-picture" principles that are the focus of the one-term biochemistry course.

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