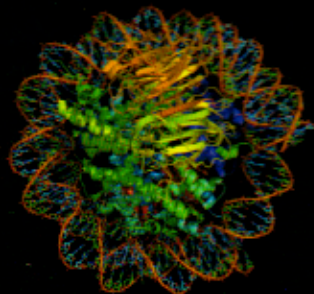


Principles of MOLECULAR BIOLOGY

BURTON E. TROPP



Written for the more concise course, *Principles of Molecular Biology* is modeled after Burton Tropp's successful *Molecular Biology: Genes to Proteins* and is appropriate for the sophomore-level course. The author begins with an introduction to molecular biology fundamentals and how they relate to real-world applications with examples from medicine and industry. An overview of protein structure and function follows and moves on to discuss the various roles of technology in elucidating the central concepts of molecular biology, providing both a historical and contemporary perspective. Dr. Tropp then delves into the heart of the book with chapters focused on chromosomes, genetics, replication, DNA damage and repair, recombination, transposition, and transcription and closes with data on translation. Special topics boxes throughout the text tie material to relevant applications in medicine and technology.

KEY FEATURES of *Principles of Molecular Biology*

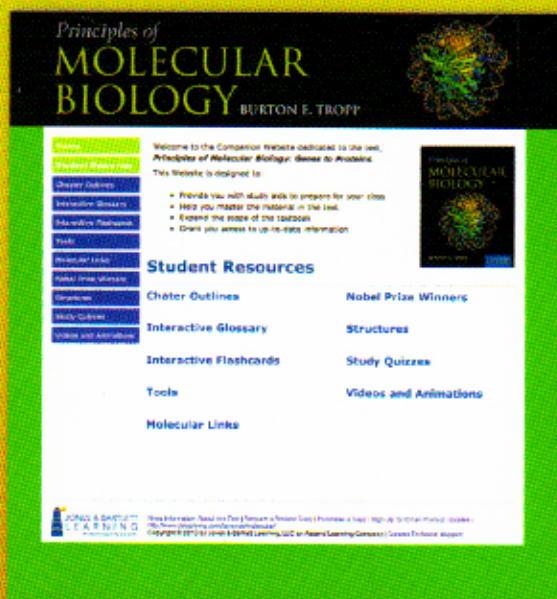
- Presents molecular biology from a biochemical perspective, utilizing model systems to best describe the process being discussed
- Presents relevant, "real-world" applications of molecular biology that are necessary for students continuing on to medical school or the biotech industry
- Special topics boxes throughout focus on applications in medicine and technology
- An end-of-chapter study guide includes questions for review and discussion
- Difficult or complicated concepts are called-out in boxes for explanation and simplification

STUDENT RESOURCES

The Companion Website

<http://biology.jbpub.com/molecular/principles>

included with the text, provides numerous study aids and learning tools to help students get the most out of their course. Resources include animations, puzzles, interactive glossary, reference links, interactive flashcards, and more.



INSTRUCTOR RESOURCES

- Test Bank
- Image Bank
- Interactive Animations
- PowerPoint Lecture Outlines



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