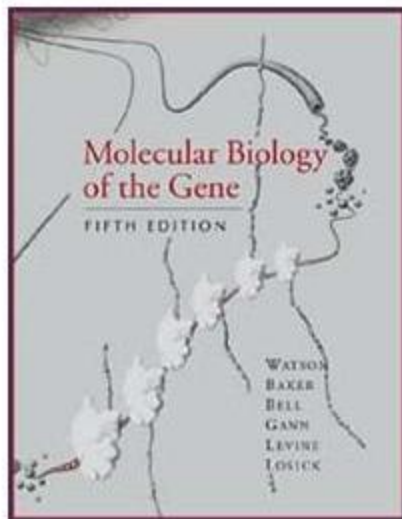


Welcome to Molecular Biology of the Gene



Overview

This CD-ROM contains 20 interactive animations, 13 structural tutorials, and 19 critical thinking exercises. The media has been designed not only to reinforce fundamental concepts, but also to extend the content and scope of the text.

Directions

To begin, choose a chapter from the drop-down menu above, or use the buttons to the left to view a complete list of interactive animations, structural tutorials, or critical thinking exercises.

VIEW EXERCISES BY CHAPTER

- 1: The Mendelian View of the World
- 2: Nucleic Acids Convey Genetic Information
- 3: The Importance of Weak Chemical Interactions
- 4: The Importance of High-Energy Bonds
- 5: Weak and Strong Bonds Determine Macromolecular Structure
- 6: The Structures of DNA and RNA
- 7: Chromosomes, Chromatin, and the Nucleosome
- 8: The Replication of DNA
- 9: The Mutability and Repair of DNA
- 10: Homologous Recombination at the Molecular Level
- 11: Site Specific Recombination and Transposition of DNA
- 12: Mechanisms of Transcription
- 13: The Splicing of RNA
- 14: Translation
- 15: The Genetic Code
- 16: Gene Regulation in Prokaryotes
- 17: Gene Regulation in Eukaryotes
- 18: Gene Regulation During Development
- 19: Comparative Genomics and the Evolution of Animal Diversity
- 20: Techniques of Molecular Biology

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OVERVIEW

INTERACTIVE
ANIMATIONSSTRUCTURAL
TUTORIALSCRITICAL
THINKING
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THE BOOK