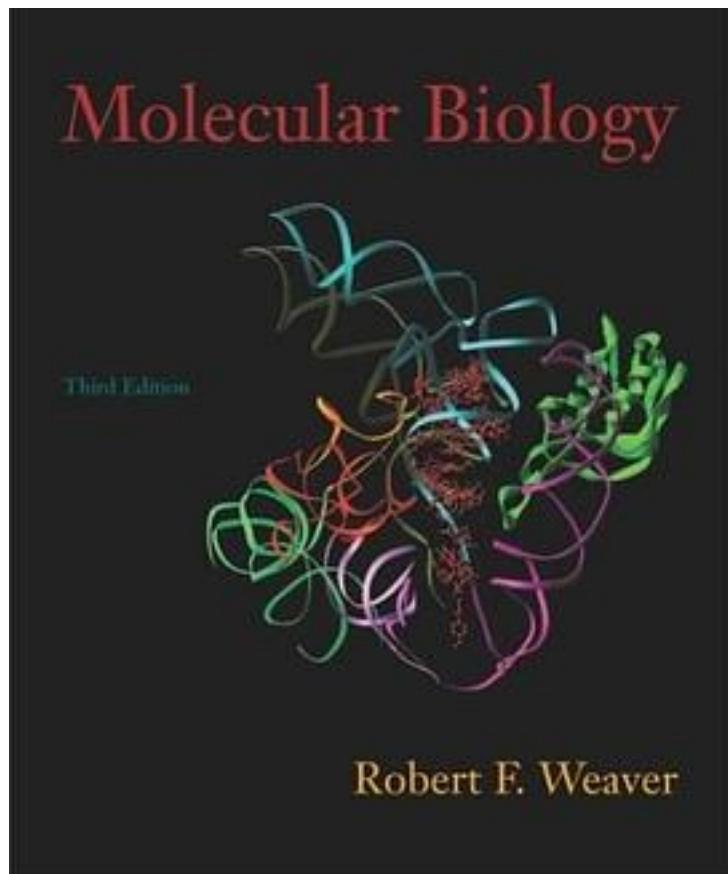


# Molecular Biology



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Molecular Biology: Genes to Proteins, Third Edition follows the original structure-function approach to teaching molecular biology that was evident in the first two editions of David Freifelder's classic text. After an introduction to the field of molecular biology the book is divided into six sections. The first two sections, Protein Structure and Function and Nucleic Acids and Nucleoproteins provide information

required to understand the chemical basis of molecular biology. The third section, Genetics and Virology provides information required to understand the biological basis of molecular biology. The fourth section, DNA Metabolism explores DNA replication, repair, and recombination in bacteria, eukaryotes and archaeons. The fifth section, RNA Synthesis and Processing examines mechanisms that bacteria, eukaryotes, and archaeons use to synthesize RNA, regulate RNA synthesis, and process transcripts to form mature RNA molecules. The sixth section, Protein Synthesis describes the structure and function of the bacterial protein synthetic machinery in bacteria, eukaryotes, and archaeons. Whenever possible, the text takes a discovery approach by reporting to students how the original information was obtained.

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