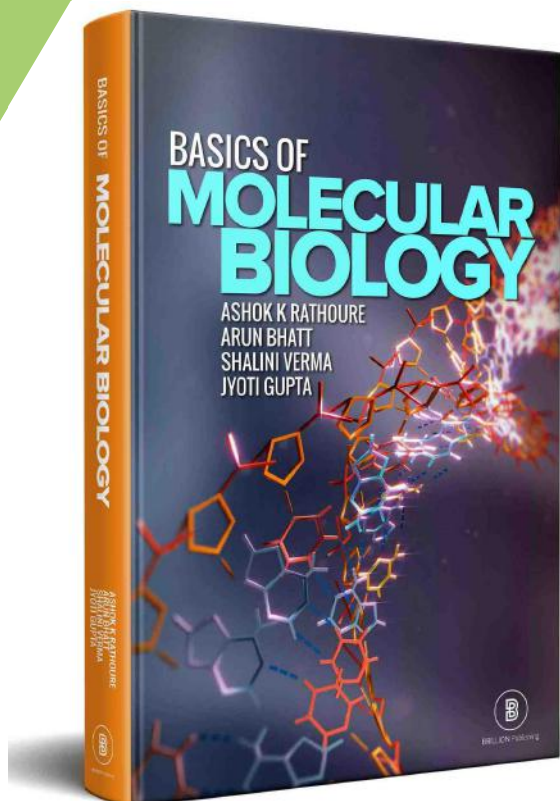




# BASICS OF MOLECULAR BIOLOGY

Molecular Biology studies the flow of information from DNA to RNA to Protein. This field overlaps with other areas, particularly genetics and biochemistry. Essentials of Molecular Biology examines the basic concepts of molecular biology while incorporating primary literature from today's leading researchers. The first chapter deals with Nucleic Acid and Protein Synthesis in which nucleic acid, nucleotides, structure and properties of nucleic acid along with mechanism of protein synthesis has been theorized. The second chapter, Transcription and Replication, has elaborated about different types of RNAs, transcription and replication in prokaryotes and eukaryotes. The enzymes and kinetics including bioenergetics have been presented in Chapter 3. The basics of biotechnology have been included in Chapter 4 with recombinant DNA technology, plant tissue culture, methods of gene transfer, transgenic plants, microbial and environmental biotechnology.



ISBN: 9788193468210  
e-ISBN: 9788193468227  
Pages: 354  
2018

Printed Copy

Softcover ▶ ₹ 1495/-

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ISBN 9788193404669



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