

Molecules and Life

Mikhail V. Vol'Kenshtein



Springer

Molecules And Life An Introduction To Molecular Biology

Kayhan Erciyes



Molecules And Life An Introduction To Molecular Biology:

Molecules and Life Mikhail V. Vol'kenshtein, 2012-12-06 acids The achievements of molecular biology testify to the success of material science in a realm which until recently appeared totally enigmatic and mysterious Further scientific developments should bring to mankind vast developments both in theoretical knowledge and in practical applications namely in agriculture medicine and technology The purpose of this book is to explain molecular biophysics to all who might wish to learn about it to biologists to physicists to chemists This book contains descriptive sections as well as sections devoted to rigorous mathematical treatment of a number of problems some of which have been studied by the author and his collaborators These sections may be omitted during a first reading Each chapter has a selected bibliography This book is far from an exhaustive treatise on molecular biophysics It deals principally with questions related to the structures and functions of proteins and nucleic acids M V Vol'kenshtein Leningrad September 1964 CONTENTS Chapter 1 Physics and Biology 1 Physics and Life 1 Molecular Physics 3 Molecular Biophysics 9 Thermodynamics and Biology 12 Information Theory 19 Chapter 2 Cells Viruses and Heredity 27 The Living Cell 27 Cell Division 37 Viruses and Bacteriophages 44 Basic Laws of Genetics 50 Mutations and Mutability 60 Genetics of Bacteria and Phages 66 Chapter 3 Biological Molecules 79 Amino Acids and Proteins 79 Asymmetry of Biological Molecules 87 Primary Structure of Proteins 94 Nucleic Acids 101 Some Biochemical Processes in the Cell 109 Chapter 4 Physics of Macromolecules 123

Molecules and Life: an Introduction to Molecular Biology Mikhail V. Vol'kenshtein, 1972 *Molecules and Life* Mikhail Vladimirovich Vol'kenshtein, 1970 *Molecules and Life* Mikhail Vladimirovich Vol'kenshtein, 1970 *Nanomedicine, Volume I* Robert A. Freitas, 2024-12-06 Molecular nanotechnology has been defined as the three dimensional positional control of molecular structure to create materials and devices to molecular precision The human body is comprised of molecules hence the availability of molecular nanotechnology will permit dramatic progress in human medical services More than just an extension of molecular medicine nanomedicine will employ molecular machine systems to address medical problems and will use molecular knowledge to maintain and improve human health at the molecular scale Nanomedicine will have extraordinary and far reaching implications for the medical profession for the definition of disease for the diagnosis and treatment of medical conditions including aging for our very personal relationships with our own bodies and ultimately for the improvement and extension of natural human biological structure and function This book will be published in three volumes over the course of several years Readers wishing to keep up to date with the latest developments may visit the nanomedicine website maintained by the Foresight Institute <http://foresight.org/Nanomedicine/index.html> *Current Catalog* National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965-70 **U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973** United States. Environmental Protection Agency. Library Systems Branch, 1974

Molecular biology and biotechnology Raylee Albert & Sidney Navarro, 2018-06-14 This book is divided into 11

chapters to facilitate a logical progression of material and to enable straightforward access to topics by providing the appropriate background and theoretical support Chapter 1 introduces the concept of molecular biology It also tells about the concept of cell and human genome project Chapter 2 discuss about the basics of biotechnology It is the controlled use of biological agents such as microorganisms or cellular components This chapter describes the Biotechnological Applications in Medicine Chapter 3 Basic Molecular Biology Techniques like Enzymes Used in Molecular Biology Isolation and Separation of Nucleic Acids Restriction Mapping of DNA Fragments and so on Chapter 4 depicts about Molecular Cloning and Protein Expression Chapter 5 highlights about the Molecular Microbial Diagnostics Chapter 6 deals with the fields like Genes and Genomes Genomics and genetics pervade all areas of basic biology biotechnology and medicine where in many cases there are clear cut and immediate benefits such as the diagnosis of genetic disease Chapter 7 tells about the Biotechnology and Molecular Biology of Yeast Chapter 8 describe the mechanisms of DNA replication recombination and translocation It also introduces the basic mechanisms of DNA replication and repair and some of the proteins including the DNA polymerases involved in replication Chapter 9 introduces Immunochemical techniques that are necessary for the immune system Chapter 10 states the use of biosensors And the last chapter discuss the use of biofuel and biotechnology The association of the book is concocted to encourage viable learning encounters The book is organized in a manner to cater to the needs of students researchers managerial organizations and readers at large It is hoped that this book will help our readers to understand the basic concept of molecular biology and the biotechnology

The Processes of Life Lawrence E. Hunter, 2012-01-13 A brief and accessible introduction to molecular biology for students and professionals who want to understand this rapidly expanding field Recent research in molecular biology has produced a remarkably detailed understanding of how living things operate Becoming conversant with the intricacies of molecular biology and its extensive technical vocabulary can be a challenge though as introductory materials often seem more like a barrier than an invitation to the study of life This text offers a concise and accessible introduction to molecular biology requiring no previous background in science aimed at students and professionals in fields ranging from engineering to journalism anyone who wants to get a foothold in this rapidly expanding field It will be particularly useful for computer scientists exploring computational biology A reader who has mastered the information in *The Processes of Life* is ready to move on to more complex material in almost any area of contemporary biology

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1965

Molecular Biology: A Very Short Introduction Aysha Divan, Janice Royds, 2016-08-18 Molecular Biology is the story of the molecules of life their relationships and how these interactions are controlled It is an expanding field in life sciences and its applications are wide and growing We can now harness the power of molecular biology to treat diseases solve crimes map human history and produce genetically modified organisms and crops and these applications have sparked a multitude of fascinating legal and ethical debates In this Very Short Introduction Aysha Divan and Janice Royds examine the history

present and future of Molecular Biology Starting with the building blocks established by Darwin Wallace and Mendel and the discovery of the structure of DNA in 1953 they consider the wide range of applications for Molecular Biology today including the development of new drugs and forensic science They also look forward to two key areas of evolving research such as personalised medicine and synthetic biology ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable *Distributed and Sequential Algorithms for Bioinformatics* Kayhan

Erciyes,2015-10-31 This unique textbook reference presents unified coverage of bioinformatics topics relating to both biological sequences and biological networks providing an in depth analysis of cutting edge distributed algorithms as well as of relevant sequential algorithms In addition to introducing the latest algorithms in this area more than fifteen new distributed algorithms are also proposed Topics and features reviews a range of open challenges in biological sequences and networks describes in detail both sequential and parallel distributed algorithms for each problem suggests approaches for distributed algorithms as possible extensions to sequential algorithms when the distributed algorithms for the topic are scarce proposes a number of new distributed algorithms in each chapter to serve as potential starting points for further research concludes each chapter with self test exercises a summary of the key points a comparison of the algorithms described and a literature review **Using The Biological Literature** Diane Schmidt, Elisabeth B. Davis, 2001-12-06

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Serials in Print, 1979 R. R. Bowker LLC, 1979-05 *Bowker's Medical Books in Print*, 1975 **The Molecular Basis of Life** Scientific American, Inc, Robert H. Haynes, 1968 School of Science and Humanities : Biological Physics Mr. Rohit

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