

Essentials Of Molecular Biology

A History of Molecular Biology The Evolution of Molecular Biology Molecular Biology and Biotechnology Essentials of Molecular Biology Principles of Molecular Biology Molecular Biology Essentials of Molecular Biology Landmark Experiments in Molecular Biology Molecular Biology and Biotechnology Molecular Biology Molecular Biology: A Very Short Introduction Molecular Biology Basic Concepts of Molecular Biology The Processes of Life Molecular Biology Fundamental Molecular Biology The Basics of Molecular Biology Cell And Molecular Biology Introduction to Molecular Biology Introduction to Molecular Biology Michel Morange Kensal Van Holde Robert Allen Meyers David Freifelder Burton E. Tropp Nancy Craig George M. Malacinski Michael Fry Ralph Rapley Burton E. Tropp Aysha Divan G. P. Jeyanthi Dr. Anand Kumar Lawrence E. Hunter Jordanka Zlatanova Lizabeth A. Allison Alexander Vologodskii S. C. Rastogi S Bresler Oksana Ableitner

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every day it seems the media focus on yet another new development in biology gene therapy the human genome project the creation of new varieties of animals and plants through genetic engineering these possibilities have all emanated from molecular biology a history of molecular biology is a complete but compact account for a general readership of the history of this revolution michel morange himself a molecular biologist takes us from the turn of the century convergence of molecular biology's two progenitors genetics and biochemistry to the perfection of gene splicing and cloning techniques in the 1980s drawing on the important work of american english and french historians of science morange describes the major discoveries the double helix messenger rna oncogenes dna polymerase but also explains how and why these breakthroughs took place the book is enlivened by mini biographies of the founders of molecular biology delbrück watson and crick monod and

Jacob Nirenberg this ambitious history covers the story of the transformation of biology over the last one hundred years the transformation of disciplines biochemistry genetics embryology and evolutionary biology and finally the emergence of the biotechnology industry an important contribution to the history of science a history of molecular biology will also be valued by general readers for its clear explanations of the theory and practice of molecular biology today molecular biologists themselves will find more a historical perspective critical to an understanding of what is at stake in current biological research

the evolution of molecular biology the search for the secrets of life provides the historical knowledge behind techniques founded in molecular biology also presenting an appreciation of how and by whom these discoveries were made it deals with the evolution of intellectual concepts in the context of active research in an approachable language that accommodates readers from a variety of backgrounds each chapter contains a prologue and epilogue to create continuity and provide a complete framework of molecular biology this foundational work also functions as a historical and conceptual supplement to many related courses in biochemistry biology chemistry genetics and history of science in addition the book demonstrates how the roots of discovery and advances and an individual's own research have grown out of the history of the field presenting a more complete understanding and context for scientific discovery expands on the development of molecular biology from the convergence of two independent disciplines biochemistry and genetics discusses the value of molecular biology in a variety of applications includes research ethics and the societal implications of research emphasizes the human aspects of research and the consequences of such advances to society

this work features 250 articles covering topics in molecular biology molecular medicine and biotechnology each article has been carefully reviewed and is illustrated and referenced each subject is presented on a first principle basis including appropriate mathematics

a text for a short first course in molecular biology treatment takes a layering approach where complexity is developed chapter by chapter rather than presented all at once includes chapter summaries drill questions problems and conceptual questions plus simple two color diagrams this third edition retains brevity of presentation and emphasis on fundamentals and adds improved prose updated material margin terms and key concepts material is reorganized in this edition in four sections on the structure of proteins nucleic acids and macromolecules functions of macromolecules coordination of macromolecular function in cells and experimental manipulation of macromolecules annotation copyrighted by book news inc portland or

includes access to the student companion website with every print copy of the text 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 discussing what it is and how it relates to applications in real life with examples pulled from medicine and industry an overview of protein structure and function follows and from there the text covers the various roles of technology in elucidating the central concepts of molecular biology from both a historical and contemporary perspective tropp then delves into the heart of the book with chapters focused on chromosomes genetics replication dna damage and repair recombination transposition transcription and wraps up with translation key features presents molecular biology from a biochemical perspective utilizing model systems as they best describe the processes being discussed special topic boxes throughout focus on applications in medicine and technology presents real world applications of molecular biology that are necessary for students continuing on to medical school or the biotech industry an end of chapter study guide includes questions for review and discussion difficult or complicated concepts are called out in boxes to further explain and simplify

the biological world operates on a multitude of scales from molecules to tissues to organisms to ecosystems throughout these myriad levels runs a common thread the communication and onward passage of information from cell to cell from organism to organism and ultimately from generation to generation but how does this information come alive to govern the processes that constitute life the answer lies in the molecular components that cooperate through a series of carefully regulated processes to bring the information in our genome to life these components and processes lie at the heart of one of the most fascinating subjects to engage the minds of scientists today molecular biology molecular biology principles of genome function second edition offers a fresh approach to the teaching of molecular biology by focusing on the commonalities that exist between the three kingdoms of life and discussing the differences between the three kingdoms to offer instructive insights into molecular processes and components this gives students an accurate depiction of our current understanding of the conserved nature of molecular biology and the differences that underpin biological diversity additionally an integrated approach demonstrates how certain molecular phenomena have diverse impacts on genome function by presenting them as themes that recur throughout the book rather than as artificially separated topics as an experimental science molecular biology requires an appreciation for the approaches taken to yield the information from which concepts and principles are deduced experimental approach panels throughout the text describe research that has been particularly valuable in elucidating difference aspects of molecular biology each panel is carefully cross referenced to the discussion of key molecular biology tools and techniques which are presented in a dedicated chapter at the end of the book molecular biology further enriches the learning experience with full color artwork end of chapter questions and summaries suggested further readings grouped by topic and an extensive glossary of key terms features a focus on the underlying principles of molecular biology equips students with a robust conceptual framework on which to build their knowledge an

emphasis on their commonalities reflects the processes and components that exist between bacteria archae and eukaryotes experimental approach panels demonstrate the importance of experimental evidence by describing research that has been particularly valuable in the field

focuses on the fundamental aspects of molecular structure and function by reviewing key features and along the way capsulizing them as a series of concise concepts users are encouraged to place the essential knowledge of molecular biology into broad contexts and develop both academic and personal meaning for this discipline

landmark experiments in molecular biology critically considers breakthrough experiments that have constituted major turning points in the birth and evolution of molecular biology these experiments laid the foundations to molecular biology by uncovering the major players in the machinery of inheritance and biological information handling such as dna rna ribosomes and proteins landmark experiments in molecular biology combines an historical survey of the development of ideas theories and profiles of leading scientists with detailed scientific and technical analysis includes detailed analysis of classically designed and executed experiments incorporates technical and scientific analysis along with historical background for a robust understanding of molecular biology discoveries provides critical analysis of the history of molecular biology to inform the future of scientific discovery examines the machinery of inheritance and biological information handling

one of the exciting aspects of being involved in the field of molecular biology is the ever accelerating rate of progress both in the development of new methodologies and the practical applications of these methodologies this popular textbook has been completely revised and updated to provide a comprehensive overview and to reflect key developments in this rapidly expanding area chapters on the impact of molecular biology in the development of biotechnology have been fully updated and include the applications of molecular biology in the areas of diagnostics biosensors and biomarkers therapeutics agricultural biotechnology and vaccines the first six chapters deal with the technology used in current molecular biology and biotechnology these primarily deal with core nucleic acid techniques genomics proteomics and recombinant protein production further chapters address major advances in the applications of molecular biotechnology by presenting information in an easily assimilated form this book makes an ideal undergraduate text molecular biology and biotechnology 6th edition will be of particular interest to students of biology and chemistry as well as to postgraduates and other scientific workers who need a sound introduction to this ever rapidly advancing and expanding area

molecular biology or molecular genetics biology department biochemical genetics biology or biochemistry department microbial genetics genetics department the book is typically used in a one semester course that may be taught in the fall or the spring however the book

contains sufficient information so that it could be used for a full year course it is appropriate for juniors and seniors or first year graduate students

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

this book delves deep into the fascinating world of molecular biology a term first coined by william astbury in 1945 this comprehensive book serves as an authoritative guide to the chemical and physical structures of biological macromolecules and the intricate world of genes it offers a panoramic view of molecular biology weaving together genetics biochemistry cell biology physics organic chemistry and biophysical chemistry into a cohesive narrative spanning thirteen meticulously crafted chapters this book begins with the fundamentals of genetic material gradually advancing through the complexities of dna and rna chemistry the organization of chromosomes in prokaryotes and eukaryotes and the mechanisms of dna synthesis and repair chapter 8 delves into the molecular mechanism of mutagenesis shedding light on the nature and types of mutations the latter chapters provide an in depth analysis of rna types and structures rna synthesis the genetic code protein biosynthesis and the regulation of gene expression across prokaryotic and eukaryotic systems the final chapter offers insights into selected analytical techniques used in dna research designed to cater to students across various disciplines this book aligns with the syllabi of undergraduate and postgraduate courses in biochemistry biotechnology bioinformatics life sciences molecular genetics and medical genetics predominantly in indian educational institutions it stands out with its unique inclusion of challenging questions and problems with solutions review questions and practical application boxes in each chapter making it an invaluable resource for academic success and competitive examinations like net this book is more than a textbook it is a beacon of knowledge that illuminates the molecular foundations of life making complex concepts in molecular biology

accessible and engaging for students and enthusiasts alike

this comprehensive fully updated text introduces the essential concepts of molecular biology to students of life science and those pursuing courses related disciplines the authors first review the relevant fundamentals of biochemistry and microbiology introducing key principles that enable molecular biologist to achieve consistent control over biological activity the text then reflects the advances that are transforming the field ranging from nucleic acid to gene regulation it introduces the comparative mechanism studies between prokaryotes and eukaryotes it also covers multiple choice questions for the practice

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

molecular biology structure and dynamics of genomes and proteomes second edition illustrates the essential principles behind the transmission and expression of genetic information at the level of dna rna and proteins emphasis is on the experimental basis of discovery and the most recent advances in the field while presenting a rigorous yet still concise summary of the structural mechanisms of molecular biology topics new to this edition include the crispr cas gene editing system coronaviruses structure genome vaccine and drug development and newly recognized mechanisms for transcription termination the text is written for advanced undergraduate or graduate level courses in molecular biology key features highlights the experimental basis of important discoveries in molecular biology thoroughly updated with new information on gene editing tools viruses and transcription mechanisms termination and antisense provides learning objectives for each chapter includes a list of relevant videos from the internet about the topics covered in the chapter

fundamental molecular biology discover a focused and up to date exploration of foundational and core concepts in molecular biology the newly revised third edition of fundamental molecular biology delivers a selective and precise treatment of essential topics in molecular biology perfect for allowing students to develop an accurate understanding of the applications of the field the book applies the process of discovery observations

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accessible and comprehensive this book describes the universal cellular nature of living organisms and is an indispensable tool for anyone in the sciences who wishes to get a quick overview of molecular biology individual chapters cover nucleic acids and proteins genetic code and protein synthesis the fidelity of transferring genetic information to the next generations and the regulation of various processes inside the cells special attention is paid to new areas rising from modern dna sequencing technologies which transform biology the book also touches on developing areas such as cures for cancer and crispr which are important for medicine and the future of humankind

cell and molecular biology second edition gives an extensive coverage of the fundamentals of molecular biology the problems it addresses and the methods it uses molecular biology is presented as an information science describing molecular steps that nature uses to replicate and repair dna regulate expression of genes process and translate the coded information in mrna modify and target proteins in the cell integrate and regulate metabolism written in a lucid style the book will serve as an ideal text for undergraduate students as well as scientific workers of other disciplines who need a comprehensive overview of the subject features of the second editionò incorporates many new topics and updatesò gives independent chapters on dna replication dna repair transcription and translation to accommodate recent advancesò a new chapter on post translational modification and protein targetingò a chapter on tools and techniques employed in molecular biologyò an introductory chapter on bioinformatics included to emphasise that molecular processes can be addressed computationallyò extensive glossary

introduction to molecular biology focuses on the principles of polymer physics and chemistry and their applications to fundamental phenomena in biological sciences it examines the structure synthesis and function of nucleic acids and proteins as well as the physicochemical techniques necessary in determining the macromolecular structure the kinetics and mechanism of enzyme action the genetics of bacteria and their viruses and the genetic code it also considers the importance of precise quantitative analysis in biochemistry and biophysics the architecture and function of biological macromolecules and the unique mechanisms that regulate the cell s biological activity organized into five chapters this book begins with an overview of proteins and their functional activity from contractility and enzymatic catalysis to immunological activity formation of selectively permeable membranes and reversible binding and transport it explains how such functions are related to molecular interactions and therefore fall within the purview of molecular biology the book then proceeds with a discussion on the chemical structure of proteins and nucleic acids the physicochemical techniques in measuring molecular size and shape the mechanism of enzymatic reactions the functions of dna and rna and the mechanism of phase transition in polynucleotides this book is intended for both biologists and non biologists who want to be acquainted with the advances made in molecular biology molecular genetics and molecular biophysics during the 1950s and 1960s

oksana ableitner offers a practical clearly structured and easy to understand introduction to complicated definitions and structures in chemistry and molecular biology for work in the molecular biology laboratory the author is guided by her experience in working with students and uses many illustrations to visualize abstract knowledge an understanding of this matter is an essential basis for successful work with dna and rna in order to ensure high quality results for responsible activities in application such as genetic research or the determination of various pathogens it is essential to be confident in dealing with the basics of these sensitive fast and specific analytical methods this springer essential is a translation of the original german 2nd edition essentials einführung in die molekularbiologie by oksana ableitner published by springer fachmedien wiesbaden gmbh part of springer nature in 2018 the translation was done with the help of artificial intelligence machine translation by the servicedeep.com a subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation springer nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

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