

Presbyopia Research From Molecular Biology To Visual Adaptation

A History of Molecular Biology Molecular Biology and Biotechnology The Evolution of Molecular Biology Advanced Molecular Biology Molecular Biology The Processes of Life Readings in Molecular Biology, Selected from 'Nature' Basic Techniques in Molecular Biology Biochemistry and Molecular Biology of Plants Molecular Biology: A Very Short Introduction Current Protocols in Molecular Biology Encyclopedia of Molecular Cell Biology and Molecular Medicine, Volume 1 Introduction to Molecular Biology Selected Papers in Molecular Biology by Jacques Monod Molecular Biology Current Protocols in Molecular Biology Landmark Experiments in Molecular Biology Techniques in Molecular Medicine Molecular Biology of the Gene An Introductory Course on Molecular Biology Michel Morange Robert Allen Meyers Kensal Van Holde Richard M. Twyman H D Kumar Lawrence E. Hunter Walter Bruno Gratzer Stefan Surzycki Danni Gilmore Aysha Divan Frederick M. Ausubel Robert A. Meyers S Bresler Agnes Ullmann Jordanka Zlatanova Frederick M. Ausubel Michael Fry Friedhelm Hildebrandt James D. Watson RAMON. SERRANO

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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 morange s historical perspective critical to an understanding of what is at stake in current biological research

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

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

a well organized reference that provides clear and concise explanations of the terminology used in molecular biology and genetics it covers key areas such as the cell cycle organelles and plasmids replication and recombinational transcription gene expression and regulation and pcr in addition dna rna and chromosomes are covered including their structure function modification mutation and repair 80 illus

the book is a choice selection of exciting topics in molecular biology organized in a logical sequence starting with a historical and biochemical background progressing through the structure and functions of nucleic acids the role of nucleic acids in protein synthesis including transcription and translation of genetic information and culminating in a concise account of our current knowledge about genes and genomes

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

this laboratory manual gives a thorough introduction to basic techniques it is the result of practical experience with each protocol having been used extensively in undergraduate courses or tested in the authors laboratory in addition to detailed protocols and practical notes each technique includes an overview of its general importance the time and expense involved in its application and a description of the theoretical mechanisms of each step this enables users to design their own modifications or to adapt the method to different systems surzycki has been holding undergraduate courses and workshops for many years during which time he has extensively modified and refined the techniques described here

membrane structures are spatial structures made out of tensioned membranes the structural use of membranes can be divided into pneumatic structures tensile membrane structures and

cable domes in these three kinds of structure membranes work together with cables columns and other construction members to find a form peripheral membrane proteins are found on the outside and inside surfaces of membranes attached either to integral proteins or to phospholipids unlike integral membrane proteins peripheral membrane proteins do not stick into the hydrophobic core of the membrane and they tend to be more loosely attached cells are the smallest units of life they are a closed system can self replicate and are the building blocks of our bodies in order to understand how these tiny organisms work we will look at a cell's internal structures we will focus on eukaryotic cells cells that contain a nucleus prokaryotic cells cells that lack a nucleus are structured differently the cell membrane is an extremely pliable structure composed primarily of back to back phospholipids a e bilayer e cholesterol is also present which contributes to the fluidity of the membrane and there are various proteins embedded within the membrane that have a variety of functions today the dna double helix is probably the most iconic of all biological molecules it's inspired staircases decorations pedestrian bridges and more a vesicular transport protein or vesicular transporter is a membrane protein that regulates or facilitates the movement of specific molecules across a vesicle's membrane as a result vesicular transporters govern the concentration of molecules within a vesicle plants require higher amounts of nitrogen as it is important in their structure and metabolism nearly 80 per cent of the earth's atmosphere is composed of nitrogen bathing the entire plant world but unfortunately most plants cannot utilize it in its elementary form the book is a meticulously organized and richly illustrated work useful both for teaching and for reference it is intended to serve plant biology and related disciplines ranging from molecular biology and biotechnology to biochemistry cell biology physiology and ecology researchers in the pharmaceutical biotechnology and agribusiness industries will find a wealth of information inside

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 rolds 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

numerous peer reviewed articles cover molecular biology cell biology and molecular medicine provides a single source library of the molecular basis of life with a focus on molecular medicine discussing in detail the latest advances of the post genomic era

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

selected papers in molecular biology by jacques monod describes the career of a scientist embarking on an uninterrupted journey of great discoveries leading to new concepts and perspectives this book contains papers written in french or english by monod and his collaborators jacques monod has dominated a scientific field with his insight and vision he has seen the direction that future research work will lead to and so reaches his goal monod is a brilliant scientist and the founder of a renowned school with a talent to judge the potential of students and young scientists as well as the ability to evaluate the various aspects of their personalities monod has successfully provided his students the projects and challenges that cater most to their interests and gifts the projects he considers for his students are both

productive and solvable challenges jacques monod is generous and loves both his students and collaborators this book will be of interest to historians biographers academe and to the general scientific community

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

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

standard molecular biology techniques are used widely in biomedical research and have had a major impact on the understanding of physiologic processes and disease mechanisms they also play an increasing role in molecular genetic diagnosis and new therapeutic approaches this laboratory manual is designed for researchers who need reliable protocols for their laboratory work it provides a step by step approach to standard methods of molecular biology a wide range of topics is covered by protocols for immediate application in the laboratory these include purification isolation labeling hybridization sequencing and enzymatic modification of dna or rna polymerase chain reaction cloning libraries and protein techniques the

manual is based on experience with a practical course in molecular biology techniques which was taught by the authors since most methods in molecular biology recapitulate in a test tube mechanisms that occur naturally in the cell the first three chapters describe and illustrate basic mechanisms of molecular biology understanding more about these basic mechanisms will enable the researcher to apply techniques more specifically based on the knowledge of their potential and limits we hope that users find this manual a helpful guide on their road to exciting insights

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this book shows that molecular biology the modern approach to biology reduces life to programs directing machinery in this view the programs are the genes and the machinery is the proteins as argued here the application of this modern discipline is crucial to solve medical and agricultural problems for the future of humanity this book will appeal to not only students of biology but also to normal people that want to understand what is life

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Introduction

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