

An Introduction To Molecular Ecology

Introduction to Molecular BiologyThe Processes of LifeIntroduction to Molecular MedicineIntroduction to Molecular BiologyAn Introduction to Molecular BiotechnologyAn Introduction to Molecular EcologyIntroduction to Molecular BiologyIntroduction to Genetics: A Molecular ApproachIntroduction to Molecular BiologyAn Introduction to Molecular BiologyAn Introduction to Molecular BiotechnologyIntroduction to Molecular GenomicsThe Thread of LifeMolecular BiologyIntroduction to Molecular GenomicsAn Introduction to Molecular NeurobiologyAn Introduction to Molecular Modelling, from Theory to ApplicationAn Introduction to Molecular BiologyAn Introduction to Molecular Evolution and PhylogeneticsIntroduction. Physiological morphology. Imbibation and molecular structure. Mechanism of absorption and translocation. The mechanism of gaseous exchange. Movements of water. The food of plants. Constructive and destructive metabolism. Respiration and fermentation. Translocation Oksana Ableitner Lawrence E. Hunter Dennis W. Ross S Bresler Michael Wink Graham Rowe Peter Paoletta T A Brown Semen Efimovich Bresler Robert C. Tait Michael Wink Asif Nadeem John Cowdery Kendrew Aysha Divan Maryam Javed Zach W. Hall Dimitrios Vlachakis R.C. Tait Lindell Bromham Wilhelm Pfeffer

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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 servicedeep1 com a subsequent human revision was done primarily in terms of content so that the book

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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 book continues the story of a new field called molecular medicine the first edition appeared 10 years ago in a previous millennium at that time cloning a gene was cutting edge research now gene cloning is a high school science fair project the complete sequencing of the human genome was finished last year cloning a human is a likely and very controversial event for 2002 the tools of molecular medicine have become very powerful and automated dna on a chip and microarrays allow us to probe large parts of the genome and its function the speed of sequencing dna has increased about 100 0 fold over the decade since the first edition of this book was published following the great improvements in technology dna and molecular research have a rapidly deepening impact on human medicine molecular therapies including dna vaccines antisense and gene transplantation are undergoing clinical trials

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

on 800 pages this textbook provides students and professionals in life sciences pharmacy and biochemistry with a very detailed introduction to molecular and cell biology including standard techniques key topics and biotechnology in industry

revised edition of introduction to molecular ecology trevor j c beebie
graham rowe 2008 2nd ed

this introduction to molecular biology is designed for students from a science background as the text assumes knowledge of general biology and chemistry it emphasizes gene function and control and applies these processes to the big picture of cell function

introduction to genetics a molecular approach is a new textbook for first and second year undergraduates it first presents molecular structures and mechanisms before introducing the more challenging concepts and terminology associated with transmission genetics

this book explains molecular biology concepts clearly and in practical terms it represents an invaluable introduction to molecular biology for undergraduates postgraduates researchers lecturers medics nurses teachers scientists editors and all t

die neuauflage dieses überaus renommierten lehrbuchs wurde als antwort auf die rasanten fortschritte in dem fachgebiet vollständig aktualisiert und präsentiert neue leistungsstarke methoden und konzepte in der biotechnologie u a genome editing reprogrammierte stammzellen und personalisierte medizin auf eine einföhrung in die grundlagen der molekular und zellbiologie folgt eine beschreibung der standardverfahren darunter aufreinigung und analyse von biomolekülen verfahren der klonierung gen expressionssysteme methoden des genome editing protein labeling und in situ verfahren standard und hochauflösende mikroskopie der dritte teil legt den schwerpunkt auf wichtige forschungs und anwendungsgebiete von der funktionalen genomik proteomik und bioinformatik bis hin zu drug targeting rekombinante antikörper und systembiologie der letzte teil wirft einen blick auf unternehmen der biotechnologie und untersucht fragestellungen des geistigen eigentums den rechtsrahmen für pharmazeutische produkte und das zusammenspiel von startup und größeren unternehmen die inhalte sind durchgängig überaus ansprechend illustriert mit hunderten von farbigen diagrammen und fotos dieses lehrbuch vermittelt studenten und berufspraktikern der biowissenschaften pharmazie und biochemie alles wissenswerte rund um die molekulare biotechnologie

introduction to molecular genomics introduces the college student to the fundamental concepts of molecular biology and genomics the text puts an emphasis on important topics in the subject that contribute to the learner s understanding these topics include molecular genomics biodiversity and molecular phenomenon behind evolution of species modern molecular methods for enhanced genomics research dna modifications at the molecular level for transgenic animal species the role of cell environment on the gene expression to name a few the have been designed to suit the requirements of taught courses in molecular biology genomics and biochemistry key features covers basic concepts on key topics in molecular biology and genomics simple easy to read layout includes references for further reading includes a section on ethical aspects of scientific research

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

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an introduction to molecular neurobiology is a textbook of contemporary cellular and molecular neurobiology written for advanced undergraduates graduate students and practising neurobiologists this book describes the behaviour and properties of neurons and glia and how these arise from the molecules that constitute them major sections focus on the signals that neurons use and how they are produced the molecular and cellular organization of neurons and glia neuronal differentiation synaptic plasticity and the molecular basis of neuronal diseases each chapter is written by an expert in the field and gives an up to date account of major questions experimental approaches the present state of knowledge and future directions boxes provide historical technical or biographical notes and expand on points of particular interest to contemporary research the book has been carefully edited to give uniformity of style and coverage and is illustrated in two colours

a brief introduction to the basic knowledge underlying modern molecular modelling

this book explains molecular biology concepts clearly and in practical terms it represents an invaluable introduction to molecular biology for undergraduates postgraduates researchers lecturers medics nurses teachers scientists editors

the analysis of dna sequences contributes to evolutionary biology at all levels from dating the origin of the biological kingdoms to untangling family relationships this introductory text presents the fundamental concepts and intellectual tools needed to understand how the genome records information about the evolutionary past and processes how that information can be read and what kinds of questions we can use that information to answer starting with evolutionary principles and illustrated throughout with biological examples it offers an ideal starting point on the journey to an understanding of the way molecular data is used in modern biology

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Introduction

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