[eBooks] Molecules And Life An Introduction To Molecular Biology

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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 enig matic 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 ofa 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 Physical Properties of Macromolecules . . . . . .

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.

Molecules, Dynamics, and Life-A. Babloyantz 1986-10-14 This book tells the story of how inert matter can acquire self-organizing and other properties ascribed to life. The author's multidisciplinary approach does not require knowledge of chemistry, physics, or biology on the part of the reader. Part I covers the properties of matter and evolutionary criteria. Part II presents an introduction to the necessary chemical concepts. Part III explains the self-organization of biosystems and the development of organisms.

Carbohydrates-Robert V. Stick 2001-03-08 This book is on carbohydrates-the essential molecules that give you energy. They are the building blocks of life. This book delivers up-to-date coverage on all aspects of carbohydrate chemistry. The molecules are sometimes sugars, i.e. "sweet," hence the subtitle "The Sweet Molecules of Life." Carbohydrates first gives the "nuts and bolts" of carbohydrate chemistry, enabling the reader to appreciate the subsequent chapters on protecting groups and the reactions of monosaccharides. (The protecting groups do just that-they are put on the molecules as a temporary measure during one or more reactions to stop the wrong bit of the molecule being changed during that reaction.) * Introduces the basic chemistry of carbohydrates * Describes the concepts, protecting groups, and reactions of carbohydrates * Includes all aspects of the synthesis of the glycosidic linkage * Gives an introduction to glycobiology and vaccines * Includes references to carbohydrate literature

The Molecules of Life-Kuriyan, John 2012-07-25 This textbook provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health sciences. It is particularly suitable for students planning to enter the pharmaceutical industry. This new generation of molecular biologists and biochemists will harness the tools and insights of physics and chemistry to exploit the emergence of genomics and systems-level information in biology, and will shape the future of medicine.

Creating the Molecules of Life-Dr Richard N. Boyd 2018-10-22 Creating the Molecules of Life discusses origins, including the Big Bang, and the origin of the elements. With a complete presentation and explanation, this book provides evidence that the molecules of life are produced in outer space and how the SNAAP model purports to explain that origin. Extremophiles, which explains that evolution is robust enough to create life forms in a wide variety of conditions, is also presented.

Readable for those at the upper undergraduate level, mathematics associated with coupling the nuclear spins to the molecular chirality is discussed. An accompanied appendix is provided to support mathematics.

Atoms in Molecules-P. L. A. Popelier 2000 Atoms in Molecules (AIM) is a powerful and novel theory for understanding chemistry, acting as a bridge between fundamental chemical concepts - such as the atom, the bond and molecular structure - and quantum mechanics. It is used increasingly in both theoretical and crystallographic research internationally, including its use in interpreting experimental charge densities. This book provides a balanced, consistent and didactic account of this exciting theory, explaining its potential impact and making it accessible to a wide audience.

The Origin of Chirality in the Molecules of Life-Albert Guijarro 2008-01-01 Few times an unsolved issue in science has dealt with a larger number of approaches or theories intending to shed light on it and few times this has been done from so different, often orthogonal perspectives. This book covers a hot topic, one of the unsolved problems not just in chemistry, but in science.

Stardust, Supernovae and the Molecules of Life-Richard N. Boyd 2011-12-14 This volume posits that not all amino acids originated on Earth, giving a detailed assessment of their ‘handedness’, a critical element in understanding their origin. Written in an accessible style, it discusses a number of models explaining handedness.

Molecules: A Very Short Introduction-Philip Ball 2003-11-27 The processes in a single living cell are akin to that of a city teeming with molecular inhabitants that move, communicate, cooperate, and compete. In this Very Short Introduction, Philip Ball explores the role of the molecule in and around us - how, for example, a single fertilized egg can grow into a multi-celled Mozart, what makes spider's silk insoluble in the morning dew, and how this molecular dynamism is being captured in the laboratory, promising to reinvent chemistry as the central creative science of the century. 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.

The Origin of Chirality in the Molecules of Life-Albert Guijarro 2008-01-01 Few times an unsolved issue in science has dealt with a larger number of approaches or theories intending to shed light on it and few times this has been done from so different, often orthogonal perspectives. This book covers a hot topic, one of the unsolved problems not just in chemistry, but in science.

Molecules of Life & Mutations-Siegfried Schwarz 2002-01-01 This book provides insights into the structures and functions of 130 of the most important biomolecules and their interactions with other endogenous or exogenous molecules. These interactions are illustrated by 3-dimensional images of their atomic structures rather than by abstract formulas or acronyms. The author has compiled an extraordinary collection of molecules which he has visualized in pictures of stunning clarity and beauty by applying molecular modelling software to their atomic coordinate files (deposited in the Brookhaven Protein Data Bank (PDB)). Together with short explanatory texts they provide the reader with a deepened understanding of biological phenomena in the normal as well as the diseased organism.

The Molecules of Life-Russ Hodge 2009 Explains the chemistry and physics of organic molecules that make up living cells, and explores the structures and behavior of DNA, RNA, and cellular proteins.

Concepts of Biology-Samantha Fowler 2018-01-07 Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

The Machinery of Life-David S. Goodsell 2009-04-10 Imagine that we had some way to look directly at the molecules in a living organism. An x-ray microscope would do the trick, or since we’re dreaming, perhaps an Asimov-style nanosubmarine (unfortunately, neither is currently feasible). Think of the wonders we could witness firsthand: antibodies atta- ing a virus, electrical signals racing down nerve fibers, proteins building new strands of DNA. Many of the questions puzzling the current cadre of sci- tists would be answered at a glance. But the nanoscale world of molecules is separated from our everyday world of experience by a daunting million-fold difference in size, so the world of molecules is completely invisible. I created the illustrations in this book to help bridge this gulf and allow us to see the molecular structure of cells, if not directly, then in an artistic rendition. I have included two types of illustrations with this goal in mind: watercolor paintings which magnify a small portion of a living cell by one million times, showing the arrangement of molecules inside, and comput- generated pictures, which show the atomic details of individual molecules. In this second edition of The Machinery of Life, these illustrations are presented in full color, and they incorporate many of the exciting scientific advances of the 15 years since the first edition.

Biochemistry-Richard Bowater 2020-03-05 Written primarily for 16-19 year old students, this primer aims to extend students' knowledge and inspire them to take their school-level learning further. It explores topics that are familiar from the curriculum and also introduces new ideas, giving students a first taste of the study of biology beyond school-level and demonstrating how concepts frequently encountered at school are relevant to and applied in current research. This is the ideal text to supportstudents who are considering making the transition from studying biology at school to university. This is a concise, stimulating introduction to the fundamental biomolecules in cells and organisms, and the exciting ways biochemistry could be used to solve global problems, both now and in the future.

Inspired by Biology-National Research Council 2008-07-17 Scientists have long desired to create synthetic systems that function with the precision and efficiency of biological systems. Using new techniques, researchers are now uncovering principles that could allow the creation of synthetic materials that can perform tasks as precise as biological systems. To assess the current work and future promise of the biology-materials science intersection, the Department of Energy and the National Science Foundation asked the NRC to identify the most compelling questions and opportunities at this interface, suggest strategies to address them, and consider connections with national priorities such as healthcare and economic growth. This book presents a discussion of principles governing biomaterial design, a description of advanced materials for selected functions such as energy and national security, an assessment of biomolecular materials research tools, and an examination of infrastructure and resources for bridging biological and materials science.

Atoms, Molecules and Photons-Wolfgang Demtröder 2006-03-06 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro-particles. It illustrates the wave model of particles by many examples and shows the limits of classical description. The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly. Many examples and problems with solutions should induce the reader to an intense active cooperation.

Chemistry-Trace Jordan 2017 Chemistry: The Molecules of Life offers chemical insights within the context of health, pharmaceuticals, and the function of biological molecules. The contextualized presentation of topics gives students a broad introduction to chemistry and helps them to see the relevance of chemistry totheir personal lives.

Atoms and Molecules-Martin Karplus 1970

From Molecules to Networks-Ruth Heidelberger 2009-01-27 An understanding of the nervous system at virtually any level of analysis requires an understanding of its basic building block, the neuron. From Molecules to Networks provides the solid foundation of the morphologic, biochemical, and biophysical properties of nerve cells. All chapters have been thoroughly revised for this second edition to reflect the significant advances of the past 5 years. The new edition expands on the network aspects of cellular neurobiology by adding a new chapter, Information Processing in Neural Networks, and on the relation of cell biological processes to various neurological diseases. The new concluding chapter illustrates how the great strides in understanding the biochemical and biophysical properties of nerve cells have led to fundamental insights into important aspects of neurodegenerative disease. • Written and edited by leading experts in the field, the second edition completely and comprehensively updates all chapters of this unique textbook • Discusses emerging new understanding of non-classical molecules that affect neuronal signaling • Full colour, professional graphics throughout • Includes two new chapters: Information Processing in Neural Networks - describes the principles of operation of neural networks and the key circuit motifs that are common to many networks in the nervous system. Molecular and Cellular Mechanisms of Neurodegenerative Disease - introduces the progress made in the last 20 years in elucidating the cellular and molecular mechanisms underlying brain disorders, including Amyotrophic Lateral Sclerosis (ALS), Parkinson disease, and Alzheimer’s disease.

Fundamentals of Molecular Structural Biology-Subrata Pal 2019-08-13 Fundamentals of Molecular Structural Biology reviews the mathematical and physical foundations of molecular structural biology. Based on these fundamental concepts, it then describes molecular structure and explains basic genetic mechanisms. Given the increasingly interdisciplinary nature of research, early career researchers and those shifting into an adjacent field often require a "fundamentals" book to get them up-to-speed on the foundations of a particular field. This book fills that niche. Provides a current and easily digestible resource on molecular structural biology, discussing both foundations and the latest advances Addresses critical issues surrounding macromolecular structures, such as structure-based drug discovery, single-particle analysis, computational molecular biology/molecular dynamic simulation, cell signaling and immune response, macromolecular assemblies, and systems biology Presents discussions that ultimately lead the reader toward a more detailed understanding of the basis and origin of disease

Molecules and Medicine-E. J. Corey 2012-02-28 Molecules and Medicine provides, for the first time ever, a completely integrated look at chemistry, biology, drug discovery, and medicine. It delves into the discovery, application, and mode of action of more than one hundred of the most significant molecules in use in modern medicine. Opening sections of the book provide a unique, clear, and concise introduction, which enables readers to understand chemical formulas.

Biology of Life-Laurence A. Cole 2016-07-22 Biology of Life: Biochemistry, Physiology and Philosophy provides foundational coverage of the field of biochemistry for a different angle to the traditional biochemistry text by focusing on human biochemistry and incorporating related elements of evolution to help further contextualize this dynamic space. This unique approach includes sections on early human development, what constitutes human life, and what makes it special. Additional coverage on the differences between the biochemistry of prokaryotes and eukaryotes is also included. The center of life in prokaryotes is considered to be photosynthesis and sugar generation, while the center of life in eukaryotes is sugar use and oxidative phosphorylation. This unique reference will inform specialized biochemistry courses and researchers in their understanding of the role biochemistry has in human life. Contextualizes the field of biochemistry and its role in human life Includes dedicated sections on human reproduction and human brain development Provides extensive coverage on biochemical energetics, oxidative phosphorylation, photosynthesis, and carbon monoxide-acetate pathways

The Molecules of Life-John Kuriyan 2012-07-25 The field of biochemistry is entering an exciting era in which genomic information is being integrated into molecular-level descriptions of the physical processes that make life possible. The Molecules of Life is a new textbook that provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health s

Introduction to Molecular Biophysics-Jack A. Tuszynski 2003-02-26 Molecular biophysics is a rapidly growing field of research that plays an important role in elucidating the mysteries of life's molecules and their assemblies, as well as the relationship between their structure and function. Introduction to Molecular Biophysics fills an existing gap in the literature on this subject by providing the reader with th

Atoms, Molecules, and Reactions-Ronald James Gillespie 1994 Traditional college level chemistry including princi-

Life Evolving-Christian de Duve 2002-10-17 In just a half century, humanity has made an astounding leap in its understanding of life. Now, one of the giants of biological science, Christian de Duve, discusses what we've learned in this half century, ranging from the tiniest cells to the future of our species and of life itself. With wide-ranging erudition, De Duve takes us on a dazzling tour of the biological world, beginning with the invisible workings of the cell, the area in which he won his Nobel Prize. He describes how the first cells may have arisen and suggests that they may have been like the organisms that exist today near deep-sea hydrothermal vents. Contrary to many scientists, he argues that life was bound to arise and that it probably only took millennia--maybe tens of thousands of years--to move from rough building blocks to the first organisms possessing the basic properties of life. With equal authority, De Duve examines topics such as the evolution of humans, the origins of consciousness, the development of language, the birth of science, and the origin of emotion, morality, altruism, and love. He concludes with his conjectures on the future of humanity--for instance, we may evolve, perhaps via genetic engineering, into a new species--and he shares his personal thoughts about God and immortality. In Life Evolving, one of our most eminent scientists sums up what he has learned about the nature of life and our place in the universe. An extraordinarily wise and humane volume, it will fascinate readers curious about the world around them and about the impact of science on philosophy and religion.

How Plants Work-Linda Chalker-Scott 2015-04-15 “Makes the science of plant processes accessible to home gardeners.” —The American Gardener Why do container plants wilt even when they’ve been regularly watered? Why did the hydrangea that thrived last year never bloom this year? Plant physiology—the study of how living things function—can solve these and most other problems gardeners regularly encounter. In How Plants Work, horticulture expert Linda Chalker-Scott brings the stranger-than-fiction science of the plant world to vivid life. She uncovers the mysteries of how and why plants do the things they do, and arms you with fascinating knowledge that will change the way you garden.

An Introduction to Interdisciplinary Toxicology-Carey N. Pope 2020-02 An Introduction to Interdisciplinary Toxicology: From Molecules to Man integrates the various aspects of toxicology, from "simple" molecular systems, to complex human communities, with expertise from a spectrum of interacting disciplines. Chapters are written by specialists within a given subject, such as a chemical engineer, nutritional scientist, or a microbiologist, so subjects are clearly explained and discussed within the toxicology context. Many chapters are comparative across species so that students in ecotoxicology learn mammalian toxicology and vice versa. Specific citations, further reading, study questions, and other learning features are also included. The book allows students to concurrently learn concepts in both biomedical and environmental toxicology fields, thus better equipping them for the many career opportunities toxicology provides. This book will also be useful to those wishing to reference how disciplines interact within the broad field of toxicology.

Molecular Biology of the Cell-Bruce Alberts 2004

Life: An Introduction to Complex Systems Biology-Kunihiko Kaneko 2006-09-14 This book examines life not from the reductionist point of view, but rather asks the questions: what are the universal properties of living systems, and how can one construct from there a phenomenological theory of life that leads naturally to complex processes such as reproductive cellular systems, evolution and differentiation? The presentation is relatively non-technical to appeal to a broad spectrum of students and researchers.

Introduction to Molecular Medicine-Dennis W. Ross 2002-05-17 This updated and revised third edition explains the fundamental principles of the human genome, gene regulation and expression, and genetic engineering. Principles are then applied to the diagnosis and treatment of human disease in infectious diseases, inherited genetic diseases, the immune system and blood cells, cancer, and public health. The text presents the basics of molecular biology and its impact on medicine in a user-friendly, concise, conversation format, with new discussions on the human genome project and genetic engineering. Ross’Introduction to Molecular Medicine remains a must-have information source for all physicians, residents, and medical students.

Biology for AP ® Courses-Julianne Zedalis 2017-10-16 Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board’s AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

Darwinian Evolution of Molecules-Hiromoto Nakazawa 2018-06-09 On the basis of thermodynamic considerations and the Earth’s historical processes, this book argues the physical inevitability of life’s generation and evolution, i.e., Why did life generate? Why does life evolve? Following an introduction to the problem, the hypothesis “Darwinian Evolution of Molecules” is proposed, which explains how, when, and where life was instigated through successive chemical reactions and the survival of selected molecules. The individual processes described are all scientifically reasonable, being verifiable by experiment. The hypothesis is supported by extensive reference to the scientific literature published in academic journals, including some experimental reports from the author’s own research group. The readers of this book will learn that the decreasing temperature of the early Earth led to a reduction in its entropy, inducing the Earth’s materials to order, which entailed ordering of the light elements as organic molecules with subsequent further ordering (i.e., evolution) to systems that can be considered alive (i.e., life). Researchers and students, as well as the non-academic audience, interested in the interdisciplinary problem of the origin of life will find suggestions and possible approaches to the scientific and conceptual problems they may be facing.

The Way of the Cell-Franklin M. Harold 2003 A leading microbiologist provides thought-provoking insights into the question of "What is Life?" as he examines the relationship of living things to the inorganic realms of physics and chemistry, explains how lifeless chemicals come together to form living beings, and details the true complexity of seemingly simple microorganisms such as E. coli.

Rendering Life Molecular-Natasha Myers 2015-08-07 What are living bodies made of? Protein modelers tell us that our cells are composed of millions of proteins, intricately folded molecular structures on the scale of nanoparticles. Proteins twist and wriggle as they carry out the activities that keep cells alive. Figuring out how to make these unruly substances visible, tangible, and workable is a challenging task, one that is not readily automated, even by the fastest computers. Natasha Myers explores what protein modelers must do to render three-dimensional, atomic-resolution models of these lively materials. Rendering Life Molecular shows that protein models are not just informed by scientific data: model building entangles a modeler’s entire sensorium, and modelers must learn to feel their way through the data in order to interpret molecular forms. Myers takes us into protein modeling laboratories and classrooms, tracking how gesture, affect, imagination, and intuition shape practices of objectivity. Asking, ‘What is life becoming in modelers' hands?’ she tunes into the ways they animate molecules through their moving bodies and other media. In the process she amplifies an otherwise muted liveliness inflecting mechanistic accounts of the stuff of life.

Biology 2e-Mary Ann Clark 2018 Biology 2e (2nd edition) is designed to cover the scope and sequence requirements of a typical two-semester biology course for science majors. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology includes rich features that engage students in scientific inquiry, highlight careers in the biological sciences, and offer everyday applications. The book also includes various types of practice and homework questions that help students understand -- and apply -- key concepts. The 2nd edition has been revised to incorporate clearer, more current, and more dynamic explanations, while maintaining the same organization as the first edition. Art and illustrations have been substantially improved, and the textbook features additional assessments and related resources.

Cells: Molecules and Mechanisms-E.V. Wong 2009

Reductionism and Systems Theory in the Life Sciences-Paul Hoyningen-Huene 2012-12-06 The present volume aims at giving a discussion ot the problems ot reductionism in contemporary life sciences. It contains six papers which deals with reduction/reductionism in different fields ot biological research. Also, the holistic perspective, 1. e. the systems view, is discussed in some ot the papers. The message ot this discussion Is that - whereas reductionism is indeed an important strategy - the systems approach is needed. It is argued by some ot the authors that organisms are complex systems and not just heaps of molecules, 50 that the analytical method does not suffice. Recent developments in systems theory offer the possibility to install a more comprehensive view ot living systems what can be seen particularly in the field ot evolutionary biology. It is true that any organismic activity is molecular, this is to say that it is based on molecular mechanisms. But it is also true that the whole organism displays certain patterns ot behavior which are not just molecular. Any organism can be described as a system ot different levels ot organization different levels ot order and complexity - and it is important, theretore, to study all ot the organizational levels and to see their peculiarities. It should be obvious, however, that there is not one problem ot reduction/reductionism, but that there are many problems linked together and that these problems appear at different levels ot biological research and bio philosophical reflections.

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