

The MOLECULES of LIFE

Physical and Chemical Principles



John Kuriyan

Boyana Konforti

David Wemmer

The Molecules Of Life Kuriyan Stormrg

Joseph Stewart Fruton



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The Molecules of Life Kuriyan, John, Konforti, Boyana, Wemmer, David, 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.

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Molecules and Life Mikhail V. Volkenshtein, 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. Volkenshtein, 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

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Contemporary Classics in the Life Sciences: The molecules of life James T. Barrett, 1986

Molecules and Life Joseph Stewart Fruton, 1972

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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 Gisela Nass, 1970 **Biomolecules** Alok Tripathi, 2019

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the Molecules of Life Steven A. Benner, 2012-12-06 The organic chemist is rarely satisfied by a simple explanation of the reactivity of organic molecules Rather the chemist wants to go one step further to control the behavior of molecules by altering their structure in a controlled way This is in fact a rather stringent definition of understanding as it requires the prediction of behavior from structure or structure from behavior But it also places technical demands on the chemist He must be able to synthesize the molecules he studies characterize them at the atomic level of structural resolution and then measure their behaviors to the precision that his explanation demands Biological chemistry presents special problems in this regard Although the tools for synthesis purification and structural characterization are now available for manipulating rather large biological macromolecules proteins and nucleic acids in particular the theory supporting these manipulations is inadequate We certainly do not know enough to control generally the behavior of biological macromolecules still worse it is not clear that we know enough to design synthetic molecules to expand our understanding about how reactivity in such biological macromolecules might be controlled Starting from scratch there are simply too many oligopeptides to make starting from native proteins there are simply too many structural mutations that might be introduced Origin of Chirality in the Molecules of Life Albert Guijarro, Miguel Yus, 2008-11-04 This book provides an interdisciplinary review of one of the great unsolved mysteries that has fascinated scientists for over 150 years the origin of chirality in biomolecules It was Pasteur who first initiated the search for a deterministic theory to explain the handedness of biomolecules His theory that a dissymmetric force was involved was correct in essence but he never saw the fruits of his labour Current thinking tells us that asymmetry in the universe has its origins in the forces that unfolded after the Big Bang and more specifically the weak force Being left handed the weak force imprinted its signature on the evolving Universe However at the molecular level the weak force does not provide a straightforward explanation of biomolecular homochirality In fact it is yet to be proved beyond doubt that a causal link exists at all Many alternative theories have been put forward some of them resting on solid ground but all lacking definitive experimental evidence to back them up Some postulate that the handedness of molecules in the biosphere

arose by chance but this is hard to test Others rely on discovering life on similar planets and making comparisons with Earth Alternative theories have emerged from a range of backgrounds including geology biology chemistry physics and astronomy Current advances in fields as diverse as space exploration prebiotic chemistry and high energy physics may help to provide an answer Important pieces of information will come from observations at the two frontiers of science outer space and the subatomic world Observation of distant planets galaxies and even actual sampling of celestial objects from beyond the solar system are projects currently underway At the other end of the spectrum there are experiments that study the elemental properties of matter such as symmetry and interactions with the fundamental forces All these efforts will render their fruits soon This volume unifies all the theories of the origin of biomolecular homochirality together in one source The various chapters focus on chance mechanisms physical forces such as the weakinteraction fluid dynamics amplification of chirality the organic contents of meteorites and comets and finally the physical view of an intrinsically asymmetric universe This complete interdisciplinary review of an intriguing subject condenses a large and disparate range of contributions from journals in almost every scientific field The various theories have been organized interrelated and explained in a unified way One of the book s strengths is its extensive use of graphic material to aid understanding the many subjects covered It is fundamental comprehensive and structured to be accessible for educational purposes

Molecules and Life Robert F. Steiner, Harold Edelhoch, 1965 **From Molecules to Life** Thomas Böttcher, 2018 Molecules of Life John Stares, 1972

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