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Biological Macromolecules: Bioactivity and Biomedical Applications presents a comprehensive study of biomacromolecules and their potential use in various biomedical applications. Consisting of four sections, the book begins with an overview of the key sources, properties and functions of biomacromolecules, covering the foundational knowledge required for study on the topic. It then progresses to a discussion of the various bioactive components of biomacromolecules. Individual chapters explore a range of potential bioactivities, considering the use of biomacromolecules as nutraceuticals, antioxidants, antimicrobials, anticancer agents, and antidiabetics, among others. The third section of the book focuses on specific applications of biomacromolecules, ranging from drug delivery and wound management to tissue engineering and enzyme immobilization. This focus on the various practical uses of biological macromolecules provide an interdisciplinary assessment of their function in practice. The final section explores the key challenges and future perspectives on biological macromolecules in biomedicine. Covers a variety of different biomacromolecules, including carbohydrates, lipids, proteins, and nucleic acids in plants, fungi, animals, and microbiological resources Discusses a range of applicable areas where biomacromolecules play a significant role, such as drug delivery, wound management, and regenerative medicine Includes a detailed overview of biomacromolecule bioactivity and properties Features chapters on research challenges, evolving applications, and future perspectives [PISA Take the Test Sample Questions from OECD's PISA Assessments](#) Oxford University Press, USA

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The Molecules of Life Wiley-Interscience

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

The Double Helix Springer

How did life start? Is the evolution of life describable by any physics-like laws? Stuart Kauffman's latest book offers an explanation-beyond what the laws of physics can explain-of the progression from a complex chemical environment to molecular reproduction, metabolism and to early protocells, and further evolution to what we recognize as life. Among the estimated one hundred billion solar systems in the known universe, evolving life is surely abundant. That evolution is a process of "becoming" in each case. Since Newton, we have turned to physics to assess reality. But physics alone cannot tell us where we came from, how we arrived, and why our world has evolved past the point of unicellular organisms to an extremely complex biosphere. Building on concepts from his work as a complex systems researcher at the Santa Fe Institute, Kauffman focuses in particular on the idea of cells constructing themselves and introduces concepts such as "constraint closure." Living systems are defined by the concept of "organization" which has not been focused on in enough in previous works. Cells are autopoietic systems that build themselves: they literally construct their own constraints on the release of energy into a few degrees of freedom that constitutes the very thermodynamic work by which they build their own self creating constraints. Living cells are "machines" that construct and assemble their own working parts. The emergence of such systems-the origin of life problem-was probably a spontaneous phase transition to self-reproduction in complex enough prebiotic systems. The resulting protocells were capable of Darwin's heritable variation, hence open-ended evolution by natural selection. Evolution propagates this burgeoning organization. Evolving living creatures, by existing, create new niches into which yet further new creatures can emerge. If life is abundant in the universe, this self-constructing, propagating, exploding diversity takes us beyond physics to biospheres everywhere.

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[Life Evolving](#) Elsevier Health Sciences

This book covers in detail the mechanisms for how energy is managed in the human body. The basic principles that elucidate the reactivity and physical interactions of matter are addressed and quantified with simple approaches. Three-dimensional representations of molecules are presented throughout the book so molecules can be viewed as unique entities in their shape and function. The book is focused on the molecular mechanisms of cellular processes in the context of human physiological situations such as fasting, feeding and physical exercise, in which metabolic regulation is highlighted. Furthermore the book uses key historical experiments that opened up new concepts in Biochemistry to further illustrate how the

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What is Life? Royal Society of Chemistry

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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

Anatomy & Physiology Penguin

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 Simon and Schuster

In "Life's Matrix", Philip Ball writes of water's origins, history, and unique physical character. His provocative exploration of water on other planets highlights the possibilities of life beyond Earth. It also examines the grim realities of depletion of natural resources and its effects on the availability of water in the 21st century. Illustrations.

Student Guide for Cycles of Life Benjamin Cummings

What determines whether complex life will arise on a planet, or even any life at all? Questions such as these are investigated in this groundbreaking book. In doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe. Everyone who has been thrilled by the recent discoveries of extrasolar planets and the indications of life on Mars and the Jovian moon Europa will be fascinated by Rare Earth, and its implications for those who look to the heavens for companionship.

Concepts of Biology The Molecules of Life

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. 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. Completely revised and updated this new edition once again unifies all the theories of the origin of biomolecular homochirality together in a single source. 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. It is fundamental, comprehensive and structured to be accessible for educational purposes.

CHEMISTRY OF LIFE CHANGDER OUTLINE

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

Molecular Biology of the Cell Bushra Arshad

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.