

Cooperativity and Regulation in Biochemical Processes

Arieh Ben-Naim

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Arthur James Wells



Cooperativity And Regulation In Biochemical Processes:

Cooperativity and Regulation in Biochemical Processes Arieh Y. Ben-Naim, 2013-03-09 This is the first book that attempts to study the origin of cooperativity in binding systems from the molecular point of view. The molecular approach provides a deeper insight into the mechanism of cooperativity and regulation than the traditional phenomenological approach. This book uses the tools of statistical mechanics to present the molecular theory of cooperativity. Cooperativity is used in a variety of processes such as loading and unloading of oxygen at relatively small pressure differences, maintaining an almost constant concentration of various compounds in living cells, and switching on and off the reading of genetic information. This book may be used as a textbook by graduate students in Chemistry, Biochemistry, and Biophysics, and will also be of interest to researchers in theoretical biochemistry.

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Biophysics DeMYSTiFieD Daniel Goldfarb, 2010-12-06 Learn BIOPHYSICS without expending a lot of ENERGY. Interested in unraveling the physics of living things? Here's your starting point. *Biophysics Demystified* is the fast and easy way to understand this fascinating topic. Written in a step-by-step format, this practical guide begins with an introduction to the science of biophysics, covering biophysical techniques and applications. Next, you'll learn the principles of physics, biology, and chemistry required to understand biophysics, including free energy, entropy, and statistical mechanics. Biomolecules and the forces that influence their structure and conformation are also covered, as are protein, nucleic acid, and membrane biophysics. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer: You'll get Molecular, subcellular, physiological, anatomical, and environmental biophysics. The laws of thermodynamics as they apply to biophysical systems. Forces affecting conformation in biological molecules. The composition and structure of carbohydrates, lipids, proteins, and nucleic acids. The fluid mosaic model. Simple enough for a beginner but challenging enough for an advanced student. *Biophysics Demystified* makes this interdisciplinary subject easy to master.

An investigation of microRNA target regulation mechanisms using an integrative approach Ulf Schmitz, 2015-06-29 This work is a showcase for the integration of systems biology and bioinformatics tools, algorithms, and models for deciphering biological phenomena. More specifically, it integrates i) prediction algorithms for identifying and characterizing molecular interactions, ii) structural modelling of molecule complexes, iii) network analysis approaches, and iv) mathematical modelling and simulation. Two comprehensive workflows are implemented for the analysis of collective target gene regulation by microRNAs and for the prediction of cooperating microRNA pairs and their mutual target genes. In two case studies, mechanisms of fine-tuned target gene regulation are revealed for different cellular processes, and the phenomenon of cooperative target regulation is identified as a frequent mechanism of gene regulation in humans.

Computational Systems Neurobiology N. Le Novère, 2012-07-20 Computational neuroscience and systems biology are among the main domains of life science research where mathematical modeling made a difference. This book

introduces the many different types of computational studies one can develop to study neuronal systems. It is aimed at undergraduate students starting their research in computational neurobiology or more senior researchers who would like or need to move towards computational approaches. Based on their specific project, the readers would then move to one of the more specialized excellent textbooks available in the field. The first part of the book deals with molecular systems biology. Functional genomics is introduced through examples of transcriptomics and proteomics studies of neurobiological interest. Quantitative modelling of biochemical systems is presented in homogeneous compartments and using spatial descriptions. A second part deals with the various approaches to model single neuron physiology and naturally moves to neuronal networks. A division is focused on the development of neurons and neuronal systems and the book closes on a series of methodological chapters. From the molecules to the organ, thinking at the level of systems is transforming biology and its impact on society. This book will help the reader to hop on the train directly in the tank engine.

Structured Biological Modelling Michael Kraus, Bernhard Wolf, 2024-11-01. Structured Biological Modelling presents a straightforward introduction for computer aided analysis, mathematical modelling and simulation of cell biological systems. This unique guide brings together the physiological, structural, molecular, biological and theoretical aspects of the signal transduction network that regulates growth and proliferation in normal and tumor cells. It provides a comprehensive survey of functional and theoretical features of intracellular signal processing and introduces the concept of cellular self organization. Exemplified by oscillatory calcium waves, strategies for the design of computer experiments are presented that can assist or even substitute for time consuming biological experiments. The presented minimal model for proliferation associated signal transduction clearly shows the alterations of the cellular signal network involved in neoplastic growth. This book will be useful to cell and molecular biologists, oncologists, physiologists, theoretical biologists, computer scientists and all other researchers and students studying functional aspects of cellular signaling.

The Journal of Chemical Physics, 1998

Essentials of Medical Biochemistry Chung Eun Ha, N. V. Bhagavan, 2011-01-28. Expert biochemist N V Bhagavan's new work condenses his successful Medical Biochemistry texts along with numerous case studies to act as an extensive review and reference guide for both students and experts alike. The research driven content includes four color illustrations throughout to develop an understanding of the events and processes that are occurring at both the molecular and macromolecular levels of physiologic regulation, clinical effects and interactions. Using thorough introductions, end of chapter reviews, fact filled tables and related multiple choice questions, Bhagavan provides the reader with the most condensed yet detailed biochemistry overview available. More than a quick survey, this comprehensive text includes USMLE sample exams from Bhagavan himself, a previous coauthor. Clinical focus emphasizing relevant physiologic and pathophysiologic biochemical concepts. Interactive multiple choice questions to prep for USMLE exams. Clinical case studies for understanding basic science diagnosis and treatment of human diseases. Instructional overview figures, flowcharts and tables to enhance understanding.

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Book Publishing Record ,2000-07 Cooperative Individualism and the Growth of Molecular Biology at the California Institute of Technology, 1928-1953 Lily E.. Kay,1987 *Molecular Biology* ,1985 **Public Health Service grants and awards. 1973 pt. 1** |publ 1973 ,1959* **Symmetry and Function of Biological Systems at the Macromolecular Level** Arne Engström,Bror Strandberg (ed),1969 **The British National Bibliography** Arthur James Wells,2001
Functional Linkage in Biomolecular Systems Francis Otto Schmitt,Diana M. Schneider,Donald M. Crothers,1975
Amino-acid, Peptide & Protein Abstracts ,1978-05 **Proceedings of the Australian Biochemical Society** Australian Biochemical Society,1974 **The Biochemistry of Plants: Biochemistry of metabolism** Paul Karl Stumpf,Eric E. Conn,1980 **Oxford Dictionary of Biochemistry and Molecular Biology** Anthony David Smith,1997 Arranged in A to Z order the more than 17 000 entries provide basic information about fundamental physiochemical laws chemical compounds constants and formulae The Dictionary also describes the essential features of some 2 000 enzymes and proteins the reactions they catalyze and the functions they perform These entries also include filenames to facilitate the location of entries in databases of sequences and definitions of 950 abbreviations and symbols Designed for students teachers researchers and other professionals in any area of the biomedical sciences the Dictionary has been fully updated and revised to incorporate new information discovered since the original edition was published in 1997 *Biological Regulation and Development* ,1979

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