

Accuracy in Molecular Processes

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Accuracy In Molecular Processes Its Control And Relevance To Living System

Thomas Kirkwood



Accuracy In Molecular Processes Its Control And Relevance To Living System:

Accuracy in Molecular Processes B. Kirkwood, 2012-12-06 Molecular biology proceeds at unremitting pace to unfold new secrets of the living world Biology long regarded as an inexact companion to physics and chemistry has undergone transformation Now chemical and physical principles are tools in understanding highly complex biomolecular processes whose origin lies in a history of chance constraint and natural selection The accuracy of these processes often remarkably high is crucial to their self perpetuation both individually and collectively as ingredients of the organism as a whole In this book are presented thirteen chapters which deal with various facets of the accuracy problem Subjects covered include the specificity of enzymes the fidelity of synthesis of proteins the replication and repair of DNA general schemes for the enhancement of biological accuracy selection for an optimal balance between the costs and benefits of accuracy and the possible relevance of molecular mistakes to the process of ageing The viewpoints are distinct yet complementary and the book as a whole offers to researchers and students the first comprehensive account of this growing field

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Roland Posner, Klaus Robering, Thomas A. Sebeok, 2008-07-14 No detailed description available for SEMIOTIK POSNER U A 1 TLBD HSK 13 1 E BOOK

The Evolution of Senescence in the Tree of Life Richard P. Shefferson, Owen R.

Jones, Roberto Salguero-Gómez, 2017-02-23 The existing theories on the evolution of senescence assume that senescence is inevitable in all organisms However recent studies have shown that this is not necessarily true A better understanding of senescence and its underlying mechanisms could have far reaching consequences for conservation and eco evolutionary research This book is the first to offer interdisciplinary perspectives on the evolution of senescence in many species setting the stage for further developments It brings together new insights from a wide range of scientific fields and cutting edge research done on a multitude of different animals including humans plants and microbes giving the reader a complete overview of recent developments and of the controversies currently surrounding the topic Written by specialists from a

variety of disciplines this book is a valuable source of information for students and researchers interested in ageing and life history traits and populations **Analytical Methods for Major and Modified Nucleosides - HPLC, GC, MS, NMR, UV and FT-IR** ,1989-12-13 Analytical Methods for Major and Modified Nucleosides HPLC GC MS NMR UV and FT IR

Fundamentals of Biochemistry JL Jain et al.,2004-09 In this latest Seventh Edition five New Chapters No 28 29 33 36 and 37 have been added to enhance the scope and utility of the book three chapters pertain to Bioenergetics and Metabolism Biosynthesis of Nucleotides Degradation of Nucleotides Mineral Metabolism and two to Nutrition Biochemistry Principles of Nutrition Elements of Nutrition In fact all the previously existing 35 chapters have been thoroughly revised enlarged and updated in the light of recent advancements and the ongoing researches being conducted the world over *The Touchstone of Life* Werner R. Loewenstein,1999-01-07 No one can escape a sense of wonder when looking at an organism from within From the humblest amoeba to man from the smallest cell organelle to the amazing human brain life presents us with example after example of highly ordered cellular matter precisely organized and shaped to perform coordinated functions But where does this order spring from How does a living organism manage to do what nonliving things cannot do bring forth and maintain all that order against the unrelenting disordering pressures of the universe In *The Touchstone of Life* world renowned biophysicist Werner Loewenstein seeks answers to these ancient riddles by applying information theory to recent discoveries in molecular biology Taking us into a fascinating microscopic world he lays bare an all pervading communication network inside and between our cells a web of extraordinary beauty where molecular information flows in gracefully interlaced circles Loewenstein then takes us on an exhilarating journey along that web and we meet its leading actors the macromolecules and see how they extract order out of the erratic quantum world and through the powerful lens of information theory we are let in on their trick the most dazzling of magician s acts whereby they steal form out of formlessness *The Touchstone of Life* flashes with fresh insights into the mystery of life Boldly straddling the line between biology and physics the book offers a breathtaking view of that hidden world where molecular information turns the wheels of life Loewenstein makes these complex scientific subjects lucid and fascinating as he sheds light on the most fundamental aspects of our existence **Experimental Life Prolongation** Vladimir V. Frolkis,Khachik K. Muradian,1991-10-24 This book presents results of lifespan prolongation studies obtained from experimental animal models and clinical and epidemiological human investigations Modern theories experimental models and mathematical models of aging are described as well as factors identified in lifespan prolongation such as reduced body temperature calorie and protein restricted diets antioxidants enterosorption motor activity modulators of genome expression ionizing radiation vitamins microelements and revitalizers Gerontologists physiologists biochemists and physicians active in the field of aging will find this book to be an interesting addition to their reference library Physical and Biological Bases of Life Stability Victor G. Gorshkov,2012-12-06 It is well known that the biochemical processes of life on Earth are maintained by the external solar

radiation and can be reduced to the synthesis and decomposition of organic matter. Man has added the synthesis and decomposition of various industrial products to these natural processes. On one hand, biological synthesis may only be conducted within the rather narrow margins of parameters of the environment including temperature, humidity, concentrations of the inorganic substances used by life such as carbon dioxide, oxygen, etc. On the other hand, the physical and chemical composition of the environment suffers significant changes during those processes of synthesis and decomposition. The maximum possible rate of such change due to the activity of living beings can exceed the average geophysical rates of change of the environment due to activity of terrestrial depths and cosmic processes by a factor of often thousands. In the absence of a rigid correlation between the biological synthesis and decomposition, the environment would be greatly disturbed within a decade and driven into a state unfit for life. A lifeless Earth, however, would suffer similar changes only after about a hundred thousand years. Preservation of the existing state of the environment is only possible with strict equality between the rates of biological synthesis and decomposition, that is, when the biochemical cycles of matter are virtually closed.

Biotic Regulation of the Environment Victor Gorshkov, A.M. Makarieva, V.V. Gorshkov, 2000-06-14. It is not possible to understand the apparent stability of the Earth's climate and environment unless we can fully understand how the best possible environmental conditions may be maintained for life to exist. Human colonization of areas with natural biota for industrial or agricultural activities will lead to degradation of those natural communities and violation of the BRE biotic regulation of the environment principle. Thus, to maintain an environment on Earth that is suitable for life, it is necessary to preserve and allow the natural recovery of natural biotic communities both in the oceans and on land. This book is devoted to a quantitative version of the BRE concept and is built on a foundation of modern scientific knowledge accumulated in the fields of physics and biology.

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