

Trends in

BIOPHYSICS

From Cell Dynamics Toward Multicellular Growth Phenomena



Pavel Kratochvíl, PhD
Editor

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Pavel Kraikivski



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Growth Vaclav Smil, 2020-12-08 A systematic investigation of growth in nature and society from tiny organisms to the trajectories of empires and civilizations Growth has been both an unspoken and an explicit aim of our individual and collective striving It governs the lives of microorganisms and galaxies it shapes the capabilities of our extraordinarily large brains and the fortunes of our economies Growth is manifested in annual increments of continental crust a rising gross domestic product a child's growth chart the spread of cancerous cells In this magisterial book Vaclav Smil offers systematic investigation of growth in nature and society from tiny organisms to the trajectories of empires and civilizations Smil takes readers from bacterial invasions through animal metabolisms to megacities and the global economy He begins with organisms whose mature sizes range from microscopic to enormous looking at disease causing microbes the cultivation of staple crops and human growth from infancy to adulthood He examines the growth of energy conversions and man made objects that enable economic activities developments that have been essential to civilization Finally he looks at growth in complex systems beginning with the growth of human populations and proceeding to the growth of cities He considers the challenges of tracing the growth of empires and civilizations explaining that we can chart the growth of organisms across individual and evolutionary time but that the progress of societies and economies not so linear encompasses both decline and renewal The trajectory of modern civilization driven by competing imperatives of material growth and biospheric limits Smil tells us remains uncertain

Scientific Interfaces and Technological Applications , 1986-01-01 *Physics of Molecular and Cellular Processes* Krastan B. Blagoev, Herbert Levine, 2022-09-08 This is a graduate level introduction to quantitative concepts and methods in the science of living systems It relies on a systems approach for understanding the physical principles operating in biology Physical phenomena are

treated at the appropriate spatio temporal scale and phenomenological equations are used in order to reflect the system of interest Biological details enter to the degree necessary for understanding specific processes but in many cases the approach is not reductionist This is in line with the approach taken by physics to many other complex systems The book bridges the gap between graduate students general physics courses and research papers published in professional journals It gives students the foundations needed for independent research in biological physics and for working in collaborations aimed at quantitative biology and biomedical research Also included are modern mathematical and theoretical physics methods giving the student a broad knowledge of tools that can shed light on the sophisticated mechanisms brought forth by evolution in biological systems The content covers many aspects that have been the focus of active research over the past twenty years reflecting the authors experience as leading researchers and teachers in this field

Biophysics in the cell Thomas Bornschlöggl,Hendrik Dietz,2025-02-10 This textbook is for all students of the natural sciences interested in the physical concepts describing fundamental cellular processes For example the phenomena of diffusion and the mechanics of macromolecules and the cell membrane are treated and illustrated with many examples Furthermore the formation of the fibrous proteins of the cytoskeleton as well as enzyme kinetics and the functioning of molecular motors are discussed This compact book builds on a two semester lecture entitled Biophysics in the Cell given at the Technical University of Munich To emphasize different approaches and thus make them more comprehensible important formulas are often derived in different ways By the way sections highlighting historical or current backgrounds and the scientific zeitgeist of the respective research enrich the material in an entertaining way Attractive clear and modern illustrations give the book a special charm in addition to the technically up to date andcomprehensibly presented content From the contents Origin and structure of cells basic concepts of biophysics and important basics of thermodynamics and statistical mechanics Passive motion by diffusion physical description of diffusion lattice models diffusion in a potential biochemical reactions Mechanics of beams polymers and membranes elastic properties of biological components forces bending stretching stretching and rupture of the cell membrane and cytoskeleton Active movement and enzyme kinetics functioning of enzymes molecular motors and the dynamics of fibre proteins in the cytoskeleton

Phase Transitions in Cell Biology Gerald H. Pollack,Wei-Chun Chin,2008-08-15 Phase transitions occur throughout nature The most familiar example is the one that occurs in water the abrupt discontinuous transition from a liquid to a gas or a solid induced by a subtle environmental change Practically magical the ever so slight shift of temperature or pressure can induce an astonishing transition from one entity to another entity that bears little resemblance to the first So convenient a feature is seen throughout the domains of physics and chemistry and one is therefore led to wonder whether it might also be common to biology Indeed many of the most fundamental cellular processes are arguably attributable to radical structural shifts triggered by subtle changes that cross a critical threshold These processes include transport motion signaling division and other fundamental aspects of cellular function Largely on

the basis of this radical concept a symposium was organized in Poitiers France to bring together people who have additional evidence for the role of phase transitions in biology and this book is a compendium of some of the more far reaching of those presentations as well as several others that seemed to the editors to be compelling The book should be suitable for anyone interested in the nature of biological function particularly those who tire of lumbering along well trodden pathways of pursuit and are eager to hear something fresh The book is replete with fresh interpretations of familiar phenomena and should serve as an excellent gateway to deeper understanding

Dynamics of Cell and Tissue Motion Wolfgang Alt, 1997 Understanding the dynamics of cell and tissue motion forms an essential step in understanding the dynamics of life and biological self organization Biological motion is one of the most obvious expressions of self organization as it requires autonomous creation and regulated action of forces leading to shape formation and translocation of cells and tissues The topics of the book include intracellular motility and cytoplasmic dynamics e g cell division single cell movement in varying extracellular media e g chemotaxis or contact guidance cell aggregation and cooperative motion e g cellular swarms or slugs and finally cell cell interactions in developing tissues e g embryogenesis or plant movement The dynamics underlying biological motion are explained on the one hand by various methods of image processing and correlation analysis and on the other hand by using physico chemical theories developing corresponding mathematical models and performing continuum field or stochastic simulations Thus the study is of an interdisciplinary character typically found in theoretical and mathematical biology Its presentation is intended to reach a broad audience from theoretically interested bioscientists physicians and biophysicists to applied mathematicians interested in the application of nonlinear dynamical systems and simulation algorithms The most important feature of the book is that it considers possible synergetic mechanisms of interaction and cooperation on different microscopic levels on the molecular level of cytoskeletal polymers membrane proteins and extracellular matrix filaments as well as on the level of cells and cellular tissues New results concern the aspects of filament or cell alignment various modes of force transduction and the formation of global stress fields The latter aspect of mechanical cell cell communication is emphasized in order to complement the much more well studied phenomena of chemical genetical or electrophysical communication

Integrated Molecular and Cellular Biophysics Valerica Raicu, Aurel Popescu, 2008-07-10 Biophysics represents perhaps one of the best examples of interdisciplinary research areas where concepts and methods from disciplines such as physics biology chemistry colloid chemistry and physiology are integrated It is by no means a new field of study and has actually been around initially as quantitative physiology and partly as colloid science for over a hundred years For a long time biophysics has been taught and practiced as a research discipline mostly in medical schools and life sciences departments and excellent biophysics textbooks have been published that are targeted at a biologically literate audience With a few exceptions it is only relatively recently that biophysics has started to be recognized as a physical science and integrated into physics departments curricula sometimes under the new name of biological physics In this period of crisis

lization and possible redefinition of biophysics there still exists some uncertainty as to what biophysics might actually represent. A particular tendency among physicists is to associate biophysics research with the development of powerful new techniques that should eventually be used not by physicists to study physical processes in living matter but by biologists in their biological investigations. There is value in that judgment and excellent books have been published that introduce the interested reader to the use of physical principles for the development of new methods of investigation in life sciences. *Cell Dynamics* M. Tazawa, 2012-01-07

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