

The Foundations of Biochemistry

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1. The Size of Cells and Their Components

- (a) If you were to magnify a cell 10,000-fold (typical of the magnification achieved using an electron microscope), how big would it appear? Assume you are viewing a "typical" eukaryotic cell with a cellular diameter of 50 μm .
- (b) If this cell were a muscle cell (myocyte), how many molecules of actin could it hold? Assume the cell is spherical and no other cellular components are present; actin molecules are spherical, with a diameter of 3.6 nm. (The volume of a sphere is $4/3 \pi r^3$.)
- (c) If this were a liver cell (hepatocyte) of the same dimensions, how many mitochondria could it hold? Assume the cell is spherical; no other cellular components are present; and the mitochondria are spherical, with a diameter of 1.5 μm .
- (d) Glucose is the major energy-yielding nutrient for most cells. Assuming a cellular concentration of 1 mM (i.e., 1 millimole/L), calculate how many molecules of glucose would be present in our hypothetical (and spherical) eukaryotic cell. (Avogadro's number, the number of molecules in 1 mol of a nonionized substance, is 6.02×10^{23} .)
- (e) Hexokinase is an important enzyme in the metabolism of glucose. If the concentration of hexokinase in our eukaryotic cell is 20 mM, how many glucose molecules are present per hexokinase molecule?

Answer

- (a) The magnified cell would have a diameter of $50 \times 10^4 \mu\text{m} = 500 \times 10^3 \mu\text{m} = 500 \text{ mm}$, or 20 inches—about the diameter of a large pizza.
- (b) The radius of a globular actin molecule is $3.6 \text{ nm}/2 = 1.8 \text{ nm}$; the volume of the molecule, in cubic meters, is $(4/3)(3.14)(1.8 \times 10^{-9} \text{ m})^3 = 2.4 \times 10^{-26} \text{ m}^3$.
The number of actin molecules that could fit inside the cell is found by dividing the cell volume (radius = 25 μm) by the actin molecule volume. Cell volume = $(4/3)(3.14)(25 \times 10^{-6} \text{ m})^3 = 6.5 \times 10^{-14} \text{ m}^3$. Thus, the number of actin molecules in the hypothetical muscle cell is

$$(6.5 \times 10^{-14} \text{ m}^3) / (2.4 \times 10^{-26} \text{ m}^3) = 2.7 \times 10^{12} \text{ molecules}$$

or 2.7 trillion actin molecules.

**Significant figures:* In multiplication and division, the answer can be expressed with no more significant figures than the least precise value in the calculation. Because some of the data in these problems are derived from measured values, we must round off the calculated answer to reflect this. In this first example, the radius of the actin (1.8 nm) has two significant figures, so the answer (volume of actin = $2.4 \times 10^{-26} \text{ m}^3$) can be expressed with no more than two significant figures. It will be standard practice in these expanded answers to round off answers to the proper number of significant figures.

Solution Of Lehninger

Francis A. Gunther



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Guide to Lehninger's Principles to Biochemistry, 1984 **Guide to Lehninger's Principles of Biochemistry** Paul Van Eikeren, 1984 *Transport Across Single Biological Membranes* D.C. Tosteson, 2012-12-06 This second Volume in the series on Membrane Transport in Biology contains a group of essays on transport across single biological membranes separating the inside and outside of cells or organelles We have not attempted to include material on all types of plasma and intracellular membranes but rather have emphasized structures which have been studied relatively thoroughly Four chapters describe transport of different types of molecules and ions across the plasma membranes of mammalian red cells Two essays concern the excitable membranes of nerve and muscle cells while the remaining four chapters treat transport across several types of intracellular membranes Water makes up more than two thirds of the mass of most living cells The transport of water between the inside and outside of cells and organelles is important for the function of these structures As a result of investigations in many laboratories over the past four decades our picture of the water permeability of the red cell membranes is rather detailed when compared to the water permeability of other biological membranes In Chapter 1 R I Macey describes this picture and also considers the permeability of red cell membranes to non electrolytes including metabolic substrates such as sugars amino acids purines and nucleosides **Discovering Cell Mechanisms** William Bechtel, 2006 Between 1940 and 1970 pioneers in the new field of cell biology discovered the operative parts of cells and their contributions to cell life They offered mechanistic accounts that explained cellular phenomena by identifying the relevant parts of cells the biochemical operations they performed and the way in which these parts and operations were organised to accomplish important functions Cell biology was a revolutionary science but in this book it also provides fuel for yet another revolution one that focuses on the very conception of science itself Laws have traditionally been regarded as the primary vehicle of explanation but in the emerging philosophy of science it is mechanisms that do the explanatory work Bechtel emphasises how mechanisms were discovered focusing especially on the way in which new instruments made these inquiries possible He also describes how new journals and societies provided institutional structure to this new enterprise *Bioenergetics of the Cell: Quantitative Aspects* Valdur A. Saks, Renée Ventura-Clapier, Xavier Leverve, André Rossi, Michel Rigoulet, 2012-12-06 This volume continues the discussion of the problems of in vivo and in vitro The recently solved X ray structure of the mitochondrial creatine kinase and its molecular biology cellular bioenergetics the tradition we started in 1994 by publication of the focused issue of Molecular and Cellular are analyzed with respect to its molecular physiology and Biochemistry volume 133 134 and a book Cellular Bio functional coupling to the adenine nucleotide translocase as energetics role of coupled creatine kinases edited by V Saks well as its participation together with the adenylate kinase and R Ventura Clapier and published by Kluwer Publishers system in intracellular energy transfer The results of the Dordrecht Boston In the present volume use of quantitative studies of creatine kinase deficient transgenic mice are methods of studies of organized

metabolic systems such as summarized and analyzed by using mathematical models of mathematical modeling and Metabolic Control Analysis for the compartmentalized energy transfer thus combining two investigation of the problems of bioenergetics of the cell is powerful new methods of the research All these results described together with presentation of new experimental together with the physiological and NMR data on the cardiac results The following central problems of the cellular bio metabolic and mitochondrial responses to work load changes energetics are the focus of the discussions the mechanisms concord to the concept of metabolic networks of energy of regulation of oxidative phosphorylation in the cells in vivo transfer and feedback regulation Study Guide and Solutions Manual for Organic Chemistry Susan McMurry, John McMurry, 1988

The Organization of Cell Metabolism G. Rickey Welch, James S. Clegg, 2012-12-06 **Biochemistry** Francis J. Chlapowski, 1988 **Arsenic Toxicity: Challenges and Solutions** Nitish Kumar, 2021-02-15 Arsenic As is a widely distributed element in the environment having no known useful physiological function in plants or animals Historically this metalloid has been known to be used widely as a poison Effects of arsenic have come to light in the past few decades due to its increasing contamination in several parts of world with the worst situation being in Bangladesh and West Bengal in India This edited volume brings together diverse group of environmental science sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination The book covers sources of arsenic contamination and its impact on human health and on prospective remediation both by bioremediation and phytoremediation Applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins The book sheds light on this global environmental issue and proposes solutions to remove contamination through a multi disciplinary lens and case studies from Bangladesh and India The book may serve as a reference to environment and sustainability researchers students and policy makers It delivers an outline to graduate undergraduate students and researchers as well as academicians who are working on arsenic toxicity with respect to remediation and health issues *The Ten Most Wanted Solutions in Protein Bioinformatics* Anna Tramontano, 2005-05-24 Utilizing high speed computational methods to extrapolate to the rest of the protein universe the knowledge accumulated on a subset of examples protein bioinformatics seeks to accomplish what was impossible before its invention namely the assignment of functions or functional hypotheses for all known proteins The Ten Most Wanted Solutions in Pro *Biomedical & Pharmaceutical Sciences with Patient Care Correlations* Reza Karimi, 2014-01-29 Biomedical Pharmaceutical Sciences with Patient Care Correlations provides a solid foundation in the areas of science that pharmacy students most need to understand to succeed in their education and career Offering a comprehensive overview of the biomedical and pharmaceutical sciences it is an ideal primary or secondary textbook for introductory courses Students can also use this text to refresh their scientific knowledge before beginning graduate study Biomedical Pharmaceutical Sciences with Patient Care Correlations includes 16 chapters that cover subjects ranging from cell biology and medicinal chemistry to

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Dehydrogenases Rosa Angela Canuto,2012-11-14 The book takes in consideration some dehydrogenases enzymes with different functions in the cells by using different substrates such as hydroxysteroid dehydrogenases aldehyde dehydrogenases glucose 6 phosphate dehydrogenase pyruvate dehydrogenase complex glutamate dehydrogenase succinate dehydrogenase They are examined from the following points of view biochemistry physiological functions and role in some diseases and in the development of tumours For these reasons the book is divided into three sections 1 Dehydrogenases and cancer 2 Dehydrogenases and some diseases 3 Dehydrogenases and physiological role

Calcium in Human Biology B.E.C. Nordin,2013-03-12 Calcium in Human Biology provides an authoritative review of current knowledge and points the way to further progress in the understanding of this essential nutrient In addition to considering the established importance of an adequate dietary source of available calcium for the formation of sound bones and teeth there is detailed discussion of the part calcium plays in a variety of aspects of human metabolism The book is written primarily for those working in the nutritional sciences and related fields It will also be of interest to clinicians nutritionists and to those interested more generally in the biological sciences as well as to those in the important sectors of the food industry which utilise or produce dairy products and other foods significant to the supply of dietary calcium

Chemistry for the Life Sciences Raul Sutton,2008-11-20 Presents short topics tied to numerical or conceptual ideas reinforced with worked examples and questions Retaining the user friendly style of the first edition this text is designed to eliminate the knowledge gap for those life sciences students who have not studied chemistry at an advanced level It contains new chapters on

Chemistry and Physics of Aqueous Gas Solutions William Alfred Adams,1975 Solutions Manual to Accompany Lehninger Frederick C. Wedler,1994

Experiments in the Purification and Characterization of Enzymes Thomas E. Crowley,Jack Kyte,2014-01-11 Experiments in the Purification and Characterization of Enzymes A Laboratory Manual provides students with a working knowledge of the fundamental and advanced techniques of experimental biochemistry Included are instructions and experiments that involve purification and characterization of enzymes from various source materials giving students excellent experience in kinetics analysis and data analysis Additionally this lab manual covers how to evaluate and effectively use scientific data By focusing on the relationship between structure and function in enzymes Experiments in the Purification and Characterization of Enzymes A Laboratory Manual provides a strong research foundation for students enrolled in a biochemistry lab course by outlining how to evaluate and effectively use scientific data in addition to offering

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Wandering in the Gardens of the Mind John Prebble, Bruce Weber, 2003-02-27 Peter Mitchell winner of the 1978 Nobel Prize for chemistry for his chemiosmotic theory was a highly original scientist who revolutionized our understanding of cellular metabolism and bioenergetics This is the only full biography of Mitchell and it should be of considerable interest to biophysicists biochemists and physicians and researchers focusing on metabolism as well as historians of medicine and biology

Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry John McMurry, Susan McMurry, 1986

Residue Reviews / Rückstands-Berichte Francis A. Gunther, 2012-12-06 That residues of pesticide and other foreign chemicals in food stuffs are of concern to everyone everywhere is amply attested by the reception accorded previous volumes of Residue Reviews and by the gratifying enthusiasm sincerity and efforts shown by all the individuals from whom manuscripts have been solicited Despite much propaganda to the contrary there can never be any serious question that pest control chemicals and food additive chemicals are essential to adequate food production manufacture marketing and storage yet without continuing surveillance and intelligent control some of those that persist in our foodstuffs could at times conceivably endanger the public health Ensuring safety in use of these many chemicals is a dynamic challenge for established ones are continually being displaced by newly developed ones more acceptable to food technologists pharmacologists toxicologists and changing pest control requirements in progressive food producing economies These matters are of genuine concern to increasing numbers of governmental agencies and legislative bodies around the world for some of these chemicals have resulted in a few mishaps from improper use Adequate safety in use evaluations of any of these chemicals persisting into our foodstuffs are not simple matters and they incorporate the considered judgments of many individuals highly trained in a variety of complex biological chemical food technological medical pharmacological and toxicological disciplines It is hoped that Residue Reviews will continue to serve as an integrating factor both in focusing

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