

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.

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Lehninger Principles of Biochemistry David L. Nelson, Albert L. Lehninger, Michael M. Cox, 2008-02 Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom introducing exciting new developments while communicating basic principles of biochemistry [Microbiology Question & Answer](#) Purshotam Kaushik, 2008 The revised edition as per UGC model for B Sc Pass Honours and M Sc students of all Indian Universities and also useful for competitive examinations like NET GATE etc New chapters added on Human Immunodeficiency virus and AIDS Ecological Groups of Microorganisms Extremophiles Aeromicrobiology Biogeochemical Cycling and Pharmaceutical and Microbial Technology besides many illustrations The text has been made more informative The special features include development of microbiology in the field has been provided microbiology applications the concept of microbiology bacterial nomenclature modern trends in between etc **Lehninger Principles of Biochemistry** Albert L. Lehninger, David L. Nelson, Michael M. Cox, 2005 CD ROM includes animations living graphs biochemistry in 3D structure tutorials **Canadian Pharmacy Exams - Pharmacist Evaluating Exam Practice, Volume 1** Dr Fatima S. Marankan, 2011-02 Canadian Pharmacy Exams Pharmacist Evaluating Exam Practice is designed as a self study tool to help the student seeking pharmacy licensure in Canada test his her exam readiness identify areas of strength and weakness to optimize learning The book is divided according to four key areas listed below and contains over 600 exam type questions and answers developed to meet the Evaluating Exam learning objectives The number of practice questions in each section reflects its relevance weight as per the Pharmacy Examining Board of Canada PEBC r 25% Biomedical Sciences 35% Pharmaceutical Sciences 30% Pharmacy Practice and 10% Behavioural Social and Administrative Pharmacy Sciences All Canadian content including pharmacy practice laws and regulations Finally answers are supplemented by numerous comments and explanations to ensure further understanding and learning of new concepts Learn more about future publications at www.cpeprep.ca [Partha's Fundamentals of Pediatrics](#) A Parthasarathy, 2013-04-30 The second edition of Partha s Fundamentals of Pediatrics has been thoroughly revised to bring trainees and physicians fully up to date with the latest developments and rapidly changing concepts in the field of paediatrics Beginning with an introduction to physical examination newborn care growth and development and immunisation the following chapters describe different disciplines within paediatrics including cardiology neurology pulmonology and endocrinology Adolescent health allergies learning disabilities skin diseases and child abuse are also discussed The final sections examine radiology and imaging drug therapy and surgical procedures Enhanced with 560 images illustrations and tables this comprehensive guide helps with recognition diagnosis and management of numerous paediatric disorders with an emphasis on prevention as well as treatment Key points Comprehensive guide to complete field of paediatrics New edition fully revised with latest developments and concepts Emphasis on prevention as well as management of numerous disorders Includes 560 full colour images illustrations and tables Previous edition published in

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