

Worksheet: Active Transport

Active transport uses energy (ATP) to move solutes against their gradients. Substances are moved against their concentration gradient – that is, from the side where they are less concentrated to the side where they are more concentrated. This type of transport requires energy, usually in the form of ATP. A common example of active transport is the sodium-potassium pump. This transmembrane protein pumps sodium out of the cell and potassium into the cell. The sodium-potassium pump is necessary for proper nerve transmission and is a major energy consumer in the body. The inside of the cell is negatively charged compared with outside of the cell. The difference in electric charge across a membrane is expressed in voltage and termed the membrane potential. Because the inside of the cell is negatively charged, a positively charged ion on the outside, like sodium, is attracted to the negative charges inside the cell. Thus, two forces drive the diffusion of ions across a membrane:

- A chemical force, which is the ion's concentration gradient, and
- A voltage gradient across the membrane, which attracts positively charged ions and repels negatively charged ions

This combination of forces acting on an ion forms an **electrochemical gradient**.



Endocytosis and Exocytosis:

There are two types of bulk transport, exocytosis and endocytosis, and both require the expenditure of energy (ATP). In **endocytosis**, molecules that are too large to be transported by other means are engulfed by an *invagination* of the cell membrane and carried into the cell surrounded by a vesicle.

There are three forms of endocytosis:

- **Pinocytosis** is a form of endocytosis in which the cell engulfs fluids (liquids).
- **Phagocytosis** is a form of endocytosis in which the cell takes in larger particles, such as a white blood cell engulfing a bacterium.
- **Receptor-mediated endocytosis** allows the cell to take in very specific molecules (ligands) that pair up with specific receptors on the cell surface.

Exocytosis is the reverse of endocytosis. **Exocytosis** is a form of active transport in which a cell transports molecules (such as proteins) out of the cell (exo- + cytosis) by expelling them in an energy-using process.

Section Active Transport Active Reading

Anne Feltz



Section Active Transport Active Reading:

Chapter Resource 4 Cells and Their Environment Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 *Fundamentals of Biochemistry, International Adaptation* Destin Heilman, Stephen Woski, Donald Voet, Judith G. Voet, Charlotte W. Pratt, 2025-08-20 [Fundamentals of Biochemistry](#) Destin Heilman, Stephen Woski, Donald Voet, Judith G. Voet, Charlotte W. Pratt, 2024-05-14 *Fundamentals of Biochemistry* 6th edition with new authors Destin Heilman and Stephen Woski provides a solid biochemical foundation that is rooted in chemistry while presenting complete and balanced coverage that is clearly written and relevant to human health and disease This edition includes new pedagogy and enhanced visuals that better adapt the text for the modern student including a focus on enhanced self assessment tools and scaffolding of learning outcomes throughout the text The new authors continue the trusted pedagogy of the previous five editions and present approachable balanced coverage to provide students with a solid biochemical foundation to prepare them for future scientific challenges The pedagogy remains focused on biochemistry's key theme the relationship between structure and function while streamlining the student experience to better focus attention on the critical subject matter *Fundamentals of Biochemistry 6e* includes a significant update to the art program with modernized more effective renderings that better enable understanding of the subject matter New scaffolded learning outcomes in each section and a focus on self assessment tools both streamline and elevate the effectiveness of the new edition as a critical learning resource for biochemistry students

Foundations of Biophysics A. L. Stanford, 2013-10-22 *Foundations of Biophysics* serves as an introductory textbook for physical science students to the principles and problems of the life sciences The book offers to teach physical science students the basic vocabulary of the life sciences and the applications of physics and chemistry to a wide range of biological problems Topics presented in the book include biological vocabulary and concepts biological functions at the molecular level of each biological system and commonly used tools of experimental biophysics Students in the field of physics chemistry biology and engineering will find the book a good learning material

Medical Biochemistry E-Book John W. Baynes, Marek H. Dominiczak, 2018-01-03 Now fully revised this acclaimed textbook efficiently links basic biochemistry with the day to day practice of medicine You will learn basic science concepts and see them illustrated by clinical cases that describe patients you will likely encounter in your clinical training You will also learn about the use of laboratory tests to diagnose and monitor the most important conditions Brought to you in a thorough yet accessible manner this new edition of *Medical Biochemistry* highlights the latest developments in regulatory and molecular biology signal transduction biochemistry and biomarkers of chronic disease and bioinformatics and the omics It highlights the most important global medical issues diabetes mellitus obesity and malnutrition cancer and atherosclerotic cardiovascular disease and addresses the role of nutrition and exercise in medicine Featuring a team of expert contributors that includes investigators involved in cutting edge research as well as experienced clinicians this book offers a unique combination of research and clinical

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Physiology of Neurons Anne Feltz, 2020-03-25 Thanks to tremendous technical advances in molecular biology and cellular imaging after those in electrophysiology there is now a deep understanding of the physiology of nerve cells and their synaptic interconnections The complexity of the brain emerges from the communication and interaction between billions of these elements This book explores systematically and didactically the details of neuronal physiology covering membrane biophysics receptor physiology sensory transduction and synaptic transmission with its selective pharmacology Readers of the book will be fully equipped to understand the functions and possibilities of the key units of the brain's parallel computations

My Revision Notes: OCR A Level Biology A Frank Sochacki, 2017-01-16 Exam Board OCR Level A Level Subject Biology First Teaching September 2015 First Exam Summer 2016 With My Revision Notes OCR A Level Biology A you can Manage your own revision with step by step support from experienced teacher and examiner Frank Sochacki Apply biological terms accurately with the help of definitions and key words Plan and pace your revision with the revision planner Test understanding with questions throughout the book Get exam ready with last minute quick quizzes available on the Hodder Education website

Contemporary Nephrology Saulo Klahr, Shaul G. Massry, 2012-12-06 This volume is the first of a biannual series entitled Contemporary Nephrology The series intends to provide the reader with a broad authoritative review of the important developments that have occurred during the previous two years in the major areas of both basic and clinical nephrology We have been fortunate to enlist a distinguished group of scientists teachers and clinicians to serve as members of the Editorial Board of this series We are grateful to them for the outstanding contributions they have made to this first volume of Contemporary Nephrology This volume has fifteen chapters The first four chapters deal with more basic aspects of nephrology Membrane Transport Schafer Renal Physiology Knox and Spielman Renal Metabolism Schoolwerth and Renal Prostaglandins Dunn Chapters 5-10 are more pathophysiologically oriented and each contains an appropriate mix of basic and clinical information This group of chapters includes Acid Base Physiology and Pathophysiology Arruda and Kurtzman Mineral Metabolism in Health and Disease Agus Goldfarb and Wassersstein Hypertension and the Renin Angiotensin Aldosterone Axis Williams and Hollenberg Immunologically Mediated Renal Disease Glasscock Acute Renal Failure and Toxic Nephropathy Anderson and Gross and the Kidney in Systemic Disease Martinez Maldonado The last five chapters which are more clinically oriented include Uremia

Friedman and Lundin Nutrition in Renal Disease Mitch Dialysis Maher Renal Transplantation Strom and finally Drugs and the Kidney Bennett *Nonequilibrium Thermodynamics* Yasar Demirel, Vincent Gerbaud, 2025-02-17 This fully updated and revised fifth edition of *Nonequilibrium Thermodynamics Transport and Rate Processes in Physical Chemical and Biological Systems* emphasizes the unifying role of thermodynamics and their use in transport processes and chemical reactions in physical chemical and biological systems This reorganized new edition provides thermodynamical approaches for foundational understanding of natural phenomena with multiscale chemical physical and biological systems consisting of interactive processes leading to self organized dissipative structures fluctuations and instabilities This edition also emphasizes thermodynamic approaches tools and techniques including energy analysis process intensification and artificial intelligence for undertaking sustainable engineering This book will be an excellent resource for graduate students and researchers in the fields of engineering chemistry physics energy biotechnology and biology as well as those whose work involves understanding the evolution of nonequilibrium systems information theory stochastic processes and sustainable engineering This may also be useful to professionals working in irreversibility dissipative structures process exergy analysis and thermoeconomics digitalization in manufacturing and data processing Highlights the fundamentals of equilibrium thermodynamics and phase equilibria Expands the theory of nonequilibrium thermodynamics and its use in coupled reactions and transport processes in various time and space scales of physical chemical and biological systems Discusses self organized dissipative structures quantum thermodynamics information theory and stochastic approaches in thermodynamic analysis including fluctuation theories and molecular motors Includes new content on sustainable engineering with thermodynamics tools and techniques including energy analysis process intensification and artificial intelligence Presents many fully solved examples and numerous practice problems Offers instructor resources containing a solution manual that can be obtained from the authors **International Encyclopedia of Transportation** ,2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction this is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local national and international levels Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering operations research economics geography and sociology in order to understand the changes taking place Emphasising the interaction between these different aspects of research it offers new solutions to modern day problems related to transportation Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives Each section is edited by a subject expert who has commissioned articles from a range of

authors representing different disciplines different parts of the world and different social perspectives The nine sections are structured around the following themes Transport Modes Freight Transport and Logistics Transport Safety and Security Transport Economics Traffic Management Transport Modelling and Data Management Transport Policy and Planning Transport Psychology Sustainability and Health Issues in Transportation Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges The end result is a reference work that offers researchers and practitioners new approaches new ways of thinking and novel solutions to problems All encompassing and expertly authored this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world Provides a forward looking and integrated approach to transportation Updated with future technological impacts such as self driving vehicles cyber physical systems and big data analytics Includes comprehensive coverage Presents a worldwide approach including sets of comparative studies and applications

Structure & Function of the Body - E-Book Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, 2024-06-25 Gain a solid foundation in A P with this easy to understand text Clear and straightforward Structure Function of the Body 17th Edition introduces the typical structure and function of the human body and describes what the body does to maintain homeostasis The book shows how structure fits function using clinical examples to reinforce A P concepts and featuring hundreds of photos and micrographs for realistic visual detail Written by a team of experts led by Kevin Patton this text includes an Evolve website packed with animations audio pronunciations review questions and other interactive learning resources NEW Updated content is added and new line art and photos ensure wider representation of skin color sex age body type and cultural diversity NEW Inclusive terminology reduces the emphasis on eponyms for example the term normal is more carefully used to avoid implying that healthy conditions outside the average are abnormal NEW The latest scientific thinking introduces or expands upon emerging core concepts such as the human microbiome with a new diagram illustrating the changes in the microbiome throughout the human life cycle Clear conversational writing style is paired with chunked content which breaks down the material into smaller bite sized bits of information that are easier to read and understand More than 400 full color photos micrographs and drawings illustrate the diversity and detail of the human body Language of Science and Medicine lists in each chapter includes key terms pronunciations and word parts to highlight new or complex medical terminology NEW Updated Connect It boxes refer you to articles on Evolve that integrate concepts and discuss the latest clinical developments and scientific research showing the big picture of human structure and function NEW Updated Science Application boxes discuss possible career paths within the context of a diversity of historical figures and their life stories NEW Quick Guide to the Language of Science and Medicine is added to Evolve helping you learn medical terminology without the need for a separate textbook UNIQUE 22 page Clear View of the Human Body insert allows you to peel back the layers of the human body both male and

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Encyclopaedia of Medical Physics Slavik Tabakov,Franco Milano,Magdalena S. Stoeva,Perry Sprawls,Sameer Tipnis,Tracy Underwood,2021-07-19 Essential Purchase Doody s Core Titles 2022 This second updated edition of the Encyclopaedia of Medical Physics contains over 3300 cross referenced entries related to medical physics and associated technologies The materials are supported by over 1300 figures and diagrams The Encyclopaedia also includes over 600 synonyms abbreviations and other linked entries Featuring over 100 contributors who are specialists in their respective areas the encyclopaedia describes new and existing methods and equipment in medical physics This all encompassing reference covers the key areas of x ray diagnostic radiology magnetic resonance imaging MRI nuclear medicine ultrasound imaging radiotherapy radiation protection both ionising and non ionising as well as related general terms It has been updated throughout to include the newest technologies and developments in the field such as proton radiotherapy phase contrast imaging multi detector computed tomography 3D 4D imaging new clinical applications of various imaging modalities

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understanding of human anatomy **The Cumulative Book Index** ,1992 A world list of books in the English language

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