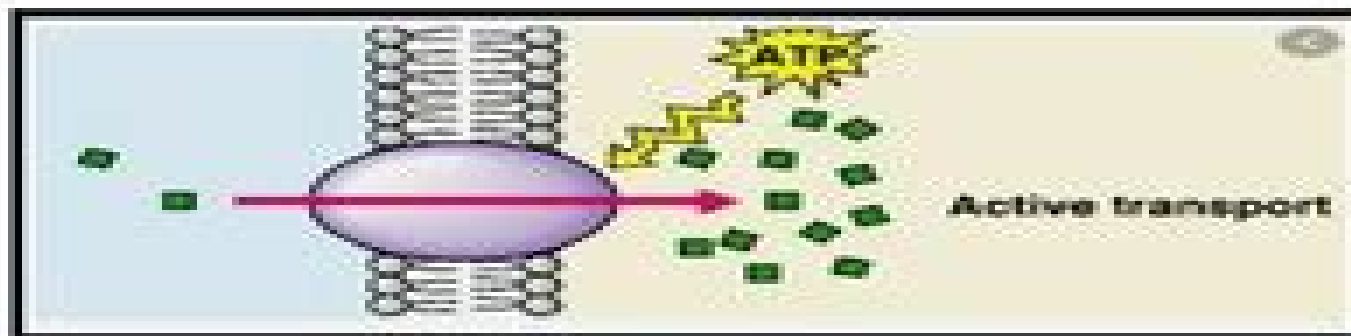


Active Transport

Sometimes molecules need to move into a crowded area. Since this is difficult, **ATP energy** is required to push the molecules into a more crowded area. See image below of **active transport**. Notice ATP is shown in the picture to signal that you are looking at active transport and not diffusion. Also, notice there are only 2 molecules on the left, and 12 on the right. Since the arrow is showing movement from left to right, this must be active transport for molecules to move from low concentration to high. ATP energy is required for this to occur. Remember, ATP energy is made by **mitochondria**.



-in the image below, molecule 1 and 2 will both enter the cell because they're more crowded outside (higher concentration). so some molecules must enter to balance out. Glucose will leave the cell because there is more glucose inside then outside.

Active Transport Study Guide

Bruce Wingerd, Patty Bostwick Taylor

A red circular graphic with a gradient, appearing as a partial circle or a thick arrow pointing to the right, located to the right of the authors' names.

Active Transport Study Guide:

Student Notebook and Study Guide to Accompany The Human Body Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd's The Human Body reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text's concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online **Study Guide for Introduction to Human Anatomy and Physiology - E-Book - Revised Reprints** Lois A Ball, 2016-11-15 Study Guide for Introduction to Human Anatomy and Physiology E Book Revised Reprints *Study Guide to Cell Biology* Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com **Study Guide for The Human Body in Health & Disease - E-Book** Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, Eric L. Sun, 2023-03-02 Reinforce your understanding of the concepts in Patton's The Human Body in Health Disease Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to anatomy and physiology and explains how body systems function in health and disease Each chapter begins with a quick synopsis of the key points in the textbook chapter A variety of exercises make it easier to review and apply key concepts and labeling of anatomy drawings helps in learning anatomical terms and structures Know your Medical Terms feature helps familiarize you with the various word parts used in medical terminology and pairs nicely with the Language of Medicine word lists in the main text to reinforce medical terminology concepts that are key to understanding A P Brief synopsis of core textbook concepts provides a comprehensive review of essential content Crossword Puzzles and Word Finds help you master new vocabulary terms Application Questions ask you to make judgments based on the information in the chapter Diagrams and labeling exercises help reinforce where the structures of the body are located Matching and fill in the blank exercises aid in understanding chapter content Answers to exercises are provided in the back of the guide along with references to the appropriate textbook page and the textbook objective so that you can easily find where the material is

presented Study tips in the Preface provide an overview of the most effective methods for learning and retaining information

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