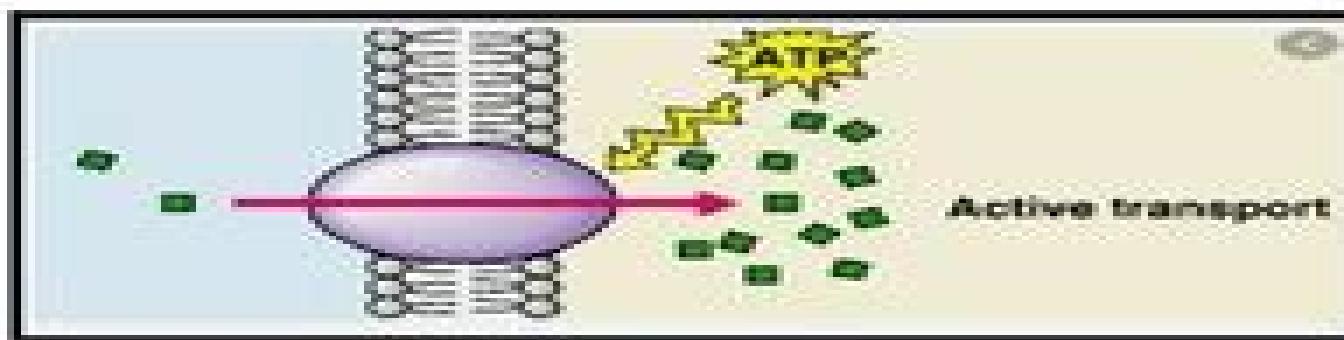




Active Transport

Sometimes a molecule needs to move into a crowded area. Since this is difficult, ATP energy is required to push the molecule 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 10 on the right. Since this arrow is showing movement from left to right, this must be active transport for a molecule to move from low concentration to high. ATP energy is required for this to occur. Remember, ATP energy is made by catabolism.



In this image below, molecules 1 and 2 will both enter the cell because they are more crowded outside (higher concentration), so some molecules must enter to balance it out. Glucose will leave the cell because there is more glucose inside than outside.

Active Transport Study Guide

Bruce Wingerd, Patty Bostwick Taylor

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.

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

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