

Chapter 5: Homeostasis and Cell Transport

In the space provided, write the letter of the description that best matches the term or phrase.

- | | |
|---------------------------------|---|
| _____ 1. plasmolysis | a. relatively low solute concentration |
| _____ 2. vesicle | b. membrane-bound organelle |
| _____ 3. hypertonic | c. uptake of large particles, solids |
| _____ 4. concentration gradient | d. shrinking of cells |
| _____ 5. cytolysis | e. uptake of solutes or fluids |
| _____ 6. hypotonic | f. swelling or bursting of cells |
| _____ 7. phagocytosis | g. concentration difference across space |
| _____ 8. pinocytosis | h. relatively high solute concentration |
| _____ 9. sodium-potassium pump | i. helps a cell rid itself of waste vacuoles |
| _____ 10. isotonic | j. double layer that makes up cell membrane |
| _____ 11. facilitated diffusion | k. transports potassium ions into the cell |
| _____ 12. exocytosis | l. transport of a specific substance down its concentration gradient by a carrier protein |
| _____ 13. phospholipids | m. solution should have no effect on a cell |
| _____ 14. carrier protein | n. embedded in cell membrane; it transports molecules into or out of the cell |

TRUE-FALSE- If a statement is true, write T in the blank. If a statement is false, write F in the blank, and then in the space provided, explain why the statement is false.

- _____ 15. The random movement of molecules in diffusion requires energy in the form of ATP.

- _____ 16. When a solution is in equilibrium, all movement of its molecules stops.

- _____ 17. In a plant cell, water molecules exert turgor pressure on the inside of the cell wall.

- _____ 18. Molecules diffuse down their concentration gradient.

Homeostasis And Transport Worksheet Answers

George Spilich



Homeostasis And Transport Worksheet Answers:

Holt Biology Chapter 41 Resource File: Nervous System Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Chapter Resource 4 Cells and Their Environment Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003

Behavioral Neuroscience George Spilich, 2023-05-16 Behavioral Neuroscience by George Spilich presents the neurophysiological aspects of behavior to the 21st century digital native learner in the context of human experience rather than in that of laboratory experiments with non human animals Whether a student has enrolled in the course to prepare them for a career in medicine or science or they are fulfilling a general education science requirement Behavioral Neuroscience is written to meet them where they are The text has an accessible writing style real life examples and data sets active learning exercises and multimodal media and quizzes all designed to make the subject more engaging and relevant This groundbreaking first edition is ideal for the Introductory Behavioral Neuroscience or the Biological Psychology course **The Art**

of the Possible Peter L. Schwartz, 1994 This scholarly account both describes and evaluates in detail the process of curriculum planning over several years from the mid 1980s mainly in preclinical study Includes questionnaires tables a substantial bibliography and comprehensive index Metabolic Transport Lowell Hokin, 2012-12-02 Metabolic Pathways Third Edition Metabolic Transport Volume VI investigates membrane transport and its role in cell physiology The book describes the transport of solutes across membranes and of carbohydrates in bacterial cells as well as other processes such as cellular transport of water amino acid transport in microorganisms proton transport and calcium transport by the sarcoplasmic reticulum Organized into 16 chapters this volume begins with an overview of the kinetics of transport emphasizing the monovalent carrier mechanism of facilitated diffusion and active transport involving monovalent carriers The book then introduces the reader to the transport of various ligands by animal cells or microorganisms transport by intracellular organelles and the role of sodium pump in animal tissues in the regulation of cellular metabolism and function The book also examines the transport of biogenic amines and some mechanisms involved in the control of transport A few examples of the role of transport in subserving other cellular processes are presented This book is a valuable source of information for workers in the transport field along with biologists whose research interests overlap with the transport field

Homeostasis Leroy Lester Langley, 1968 **Cell Metabolism** Paula Bubulya, 2012 A global research community of scientists is teasing out the biochemical mechanisms that regulate normal cellular physiology in a variety of organisms Much of current research aims to understand the network of molecular reactions that regulate cellular homeostasis and to learn what allows cells to sense stress and activate appropriate biochemical responses Advanced molecular tools and state of the art imaging techniques discussed in this book continue to provide novel insights into how environmental changes impact organisms as well as to develop therapeutic interventions for correcting aberrant pathways in human disease

Homeostasis William R. Harvey, 1997 *Homeostasis*, Curiosity about the expressive properties of materials and the

psychological associations that they carry is my primary motivation as an artist My selection and manipulation of materials is influenced by my background in biology and my ongoing interest in the metaphoric potential of biological forms and systems I am drawn to handmade paper and pulp made from overbeaten abaca and flax in particular for the organic corporeal effect that it brings to my sculpture and artist books This material has an inherent tension resulting from its propensity to shrink as it dries Its translucent membrane like quality is simultaneously beautiful and grotesque a compelling paradox that inspired the experiments leading up to this work <http://abecedariangallery.com/store/shop/karen-hardy/homeostasis> as viewed on June 29 2017 also on printed information sheet housed with piece

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