

## UNIT 1: Biochemistry

### Chapter 2: Cell Structure and Function

pg. 70 - 107

#### 2.4: Transport across Membranes

pg. 89 – 97

Characteristics of life state that living things must take in nutrients and remove wastes, needed for metabolic reactions and the products. The exchange of substances between the external and internal environments of a cell is a complex process and highly selective.

Trans-membrane exchange does not just occur in the cell membrane but also with all membrane bound organelles. Reactants must be able to enter the organelles so metabolic reactions can occur and their products must be removed.

#### Passive Membrane Transport

*Passive transport* – is the movement of a substance across a membrane without expending energy.

*Dynamic equilibrium* – is the state in which continuous action results in balanced conditions.

This passive motion occurs because molecules are always in constant motion, and in a closed environment become uniformly distributed.

Diffusion is the primary mechanism of solute movement within a cell and between cellular compartments separated by a membrane.

If molecules are more concentrated on one side of a membrane, these molecules will eventually travel across the membrane creating a dynamic equilibrium.

The rate of diffusion is controlled by the concentration gradient that exists between the two sides or across the membrane.

The larger the concentration gradient the faster the rate of diffusion occurs.

Membranes are selectively permeable, which means that some substance can pass through freely while others can not or require assistance. The size and

# Unit 1 Biochemistry Chapter 2 Cell Structure And

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## Unit 1 Biochemistry Chapter 2 Cell Structure And:

**Principles of Clinical Biochemistry** Maxwell Cooper M.D., Ronit Shah M.D., Anthony DeLeonibus M.D., 2019-01-01  
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delves into the available treatment options for difficult cases of acne and scarring and provides expert discussions

*Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research* Robert L. Maynard, Noel Downes, 2019-02-08 *Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research* presents the detailed systematic anatomy of the rat with a focus on toxicological needs Most large works dealing with the laboratory rat provide a chapter on anatomy but fall far short of the detailed account in this book which also focuses on the needs of toxicologists and others who use the rat as a laboratory animal The book includes detailed guides on dissection methods and the location of specific tissues in specific organ systems Crucially the book includes classic illustrations from Miss H G Q Rowett along with new color photo micrographs Written by two of the top authors in their fields this book can be used as a reference guide and teaching aid for students and researchers in toxicology In addition veterinary medical students researchers who utilize animals in biomedical research and researchers in zoology comparative anatomy physiology and pharmacology will find this book to be a great resource Illustrated with over a hundred black and white and color images to assist understanding Contains detailed descriptions and explanations to accompany all images helping with self study Designed for toxicologic research for people from diverse backgrounds including biochemistry pharmacology physiology immunology and general biomedical sciences *Biological Systems* Shelby Delos Gerking, 1974 **Biological Science** Biological Sciences Curriculum Study, 1996 *Chemical Engineering Education*, 1969 **Loose-leaf Version for Biochemistry** Jeremy M. Berg, John L. Tymoczko, Gregory J. Gatto, Jr., Lubert Stryer, 2015-04-08 For four decades this extraordinary textbook played a pivotal role in the way biochemistry is taught offering exceptionally clear writing innovative graphics coverage of the latest research techniques and advances and a signature emphasis on physiological and medical relevance Those defining features are at the heart of this edition **Cell Physiology** Arthur Charles Giese, 1962 *Essentials of Glycobiology* Ajit Varki, Maarten J. Chrispeels, 1999 Sugar chains glycans are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms *Essentials of Glycobiology* describes their biogenesis and function and offers a useful gateway to the understanding of glycans *Introductory Biochemistry* Manney Frank Mallette, 1971 **Biochemistry of Steroids and Other Isopentenoids** William R. Nes, Margaret Lee McKean, 1977 **Botany** Peter Martin Ray, Taylor A. Steeves, Sara A. Fultz, 1983 *Essentials of Pathophysiology* Carol Porth, 2011 Porth *Pathophysiology* understanding made easy delivered however you need it Porth's *Essentials of Pathophysiology* 3e delivers exceptional student understanding and comprehension of pathophysiology An expanded robust and flexible suite of supplements makes it easy for you to select the best course resources so you can meet your students changing needs For both discrete and hybrid courses the flexibility and power of Porth allows you to customize the amount of pathophysiology that you need for effective teaching and learning Including a resource DVD with text **Human Biochemistry** James M. Orten, Otto Wilhelm Neuhaus, 1982

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