

UNIT 1: Biochemistry

Chapter 2: Cell Structure and Function

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2.4: Transport across Membranes

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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

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