

II. Membrane Transport

- Passive transport
 - Diffusion
 - Osmosis
- Active transport
 - Pumps
 - Channels

III. Cell Signaling

- Hormone signaling
 - Endocrine system
 - Target cells
- Neurotransmitters
 - Synaptic transmission
 - Neurological disorders

Lecture 3: Cellular Organelles

I. Mitochondria

- Energy production (ATP)
- Cellular respiration
- Mitochondrial dynamics

II. Chloroplast

- Photosynthesis
- Plant cell structure
- Chloroplast development

III. Lysosomes

- Cellular digestion
- Waste management
- Lysosomal storage diseases

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