

Loving's A&P I – Chapter 3 – Terms

Highlighted terms are introduced during lab

Non-highlighted terms are emphasized during lecture

Cell theory

Plasma membrane

Hydrophilic

Hydrophobic

Glycolipids

Lipid rafts

Integral proteins

Peripheral proteins

Glycocalyx

Interstitial fluid

Selectively permeable, or Differentially permeable

Diffusion – a passive process

Concentration gradient

Facilitated diffusion

Carriers

Channels

Osmosis

Hydrostatic pressure

Osmotic pressure

Tonicity

Isotonic

Hypertonic, crenate

Hypotonic, lyse

Active transport

Solute pumps, Na⁺ pumps, K⁺ pumps

Primary active transport

Secondary active transport

Vesicular transport

Exocytosis

Endocytosis

Phagocytosis

Phagosome

Amoeboid motion

Pinocytosis

Plasma Membrane

Membrane potential

Resting membrane potential (around 50 – 100 millivolts)

Polarized

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Students are also responsible for concepts!*

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Membrane receptors

Contact signaling

Chemical signaling

Ligands

Neurotransmitters and hormones

Electrical signaling

Cytoplasm

Cytosol

Organelles

Inclusions

Cytoplasmic organelles include:

Mitochondria

Cristae

Aerobic cellular respiration

ADP, ATP

Ribosomes

Endoplasmic reticulum (ER)

Smooth ER

Rough ER

Golgi apparatus

Lysosomes

Endomembrane system

Peroxisomes

Free radicals

Cytoskeleton

Microtubules

Microfilaments

Centrosomes

Centrioles

Cilia

Flagella

Microvilli

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Nucleus

Multinucleate

Anucleate

Nuclear envelope

Chromatin

Chromosomes

Cell life cycle

Interphase

DNA replication

Mitosis

Cytokinesis

Protein synthesis

Triplet

Messenger RNA, mRNA, carries message from nucleus

Ribosomal RNA, rRNA on the ribosomes

Transfer RNA, tRNA, very small, carry one amino acid.

Transcription

Translation

Genetic code

Codon

Extracellular materials

Extracellular matrix

Cell differentiation

Hypoplasia

Atrophy

Telomeres



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