

CHAPTER 3: CELLULAR LEVEL OF ORGANIZATION

Cell

- smallest unit of protoplasm capable of independent existence;
- fundamental unit of protoplasm;
- variable size;
- shape: spherical, cuboidal, columnar, fusiform, or stellate
- Major Divisions: Nucleus, Cytoplasm bounded by Cell Membrane

CELLULAR STRUCTURE

NUCLEUS

- usually single & center of cell
- shape conforms to shape of cell

Nuclear Membrane

- 2 membranes; space between is called **Perinuclear Space**
- Nuclear Pores:** point of communication bet. nucleus and cytoplasm
- regulates passage of substances from nucleoplasm to cytoplasm & vice versa
- encloses jelly-like fluid: **Nucleoplasm**, where we can find **chromatin** & **nucleolus**

Chromatin

- composed of strands of DNA
- Heterochromatin:** visible; coiled
- Euchromatin:** not seen; uncoiled
- Chromosomes:** dense rod like bodies formed from coiled DNA

Nucleolus

- maybe one or more in nucleus
- dark staining; off center
- tightly coiled RNA's; site for RNA synthesis

PLASMA MEMBRANE

- composed of lipid, protein, carbohydrates
- very thin can't be seen under LM
- trilaminar membrane:** 2 dense outer line and pale inner line
- bimolecular layer of phospholipids; **hydrophilic heads** (inner and outer surfaces); **hydrophobic tails** (middle)
- composed of **Cholesterol** (gives fluidity)
- Globular Proteins** (receptor proteins, transport proteins, and enzymes)
- Integral Membrane Protein:** embedded all the way

- Peripheral Membrane Protein:** not embedded all the way
- contains **Oligosaccharides** attached to **globular proteins**
- Glycocalyx:** surface coat of cell membrane made up of globular proteins and oligosaccharides protruding towards the outer surface of the membrane; protection, cell-cell recognition & adhesion

Specialization of Plasma Membrane

- Free Surface Specialization**
 - Microvilli:** increase cell surface area for absorption
 - Cilia:** for movement
 - Flagella:** very long process; provide motility
- Junctional Specializations (Lateral)**
 - Tight Junction:** adjacent cell membranes fuse around their perimeters; seal off intercellular space; prevents entry; cell-cell adhesion
 - Desmosomes:** button-like; connected by protein filaments; cell-cell adhesion
 - Gap Junctions (Nexus):** connection by hollow cylindrical structures (Connexons); passage of substance; rapid spread of excitation

CYTOPLASM

- site of most cellular metabolic activities

Cytosol

- semi fluid matrix where other elements are suspended

Formed Elements

- Organelles:** participate actively in the processes of cell metabolism

ORGANELLES

MITOCHONDRIA

- ATP production; powerhouse of the cell
- enclosed by 2 membranes
- outer membrane: **smooth**; inner membrane: **cistae/cisterna**, **projections in mitochondria**; **cristae**; **folds**
- enclose by **mitochondrial matrix**

Anatomy And Physiology Cellular Level Study Guide

**Joyce Young Johnson, Rosdahl, Phyllis
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