

## 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  
Prather Hicks**



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1. Understanding the eBook Anatomy And Physiology Cellular Level Study Guide
  - The Rise of Digital Reading Anatomy And Physiology Cellular Level Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Cellular Level Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Anatomy And Physiology Cellular Level Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Cellular Level Study Guide
  - Personalized Recommendations
  - Anatomy And Physiology Cellular Level Study Guide User Reviews and Ratings
  - Anatomy And Physiology Cellular Level Study Guide and Bestseller Lists
5. Accessing Anatomy And Physiology Cellular Level Study Guide Free and Paid eBooks
  - Anatomy And Physiology Cellular Level Study Guide Public Domain eBooks
  - Anatomy And Physiology Cellular Level Study Guide eBook Subscription Services
  - Anatomy And Physiology Cellular Level Study Guide Budget-Friendly Options



6. Navigating Anatomy And Physiology Cellular Level Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Anatomy And Physiology Cellular Level Study Guide Compatibility with Devices
  - Anatomy And Physiology Cellular Level Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Anatomy And Physiology Cellular Level Study Guide
  - Highlighting and Note-Taking Anatomy And Physiology Cellular Level Study Guide
  - Interactive Elements Anatomy And Physiology Cellular Level Study Guide
8. Staying Engaged with Anatomy And Physiology Cellular Level Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Anatomy And Physiology Cellular Level Study Guide
9. Balancing eBooks and Physical Books Anatomy And Physiology Cellular Level Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Anatomy And Physiology Cellular Level Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Anatomy And Physiology Cellular Level Study Guide
  - Setting Reading Goals Anatomy And Physiology Cellular Level Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy And Physiology Cellular Level Study Guide
  - Fact-Checking eBook Content of Anatomy And Physiology Cellular Level Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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