

THE CELL THEORY

- although different living things may be as unlike as a violet and an octopus, they are all built in essentially the same way. The most basic similarity is that **all living things are composed of one or more cells**. This is known as the **Cell Theory**.
- our knowledge of cells is built on work done with **microscopes**
- English scientist **Robert Hooke** in 1665 first described cells from his observations of cork slices. Hooke first used the word "cell".
- Dutch amateur scientist **Antonie van Leeuwenhoek** discovered microscopic animals in water
- German scientists **Schleiden** and **Schwann** in 1830's were first to say that all organisms are made of one or more cells.
- German biologist **Virchow** in 1858 stated that all cells come from the division of pre-existing cells.
- Cells are the building blocks of life.

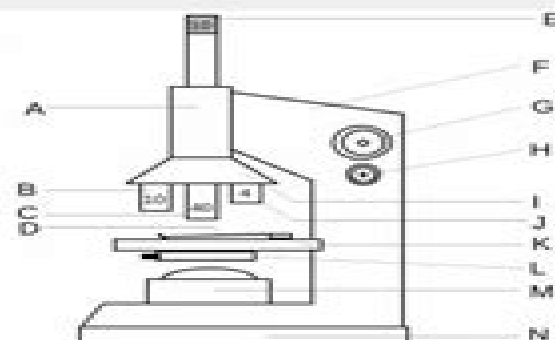
The Cell Theory can be summarized as:

1. All living organisms are made up of one or more cells
2. The cell is the basic unit of life
3. All cells come from the division of pre-existing cells

- cells come in many **shapes** and **sizes**, although most are **microscopic**:
 - most cells are small, about 0.001 cm in length (1/100 of a mm, or 10 μm).
 - the smallest cells of the microorganism **mycoplasma** are 0.3 μm in size
 - Some cells are large. e.g. some giant algal cells may be several centimeters long. A chicken's egg is a single cell.
 - **40,000 red blood cells** would fill the letter "O" on a page of type. You produce about 2.5 million new red blood cells every second! Each square cm of your skin contains about **150,000 skin cells**.
 - Human beings are composed of about **50 to 100 trillion cells**.
- cells **carry on all the processes associated with life**, such as **reproducing** and **interacting** with the environment.

Microscopy

- The study of cell structure includes the fields of **CYTOLOGY** (for cells) and **HISTOLOGY** (for tissues), whereas the function of cells is studied in **CELL PHYSIOLOGY**, **BIOCHEMISTRY**, and **CYTOGENETICS**.
- The first instrument used in studying cell structure was the **light microscope**, which remains an important tool today. The **TRANSMISSION ELECTRON MICROSCOPE** and the **SCANNING ELECTRON MICROSCOPE** have vastly increased our knowledge.
- Before an object can be viewed, it is necessary to **stain** the material and cut it into samples **thin enough** for a light beam or an electron beam to penetrate them.
- First, the tissue is treated, to "**fix**" the structures so they will not be altered by the staining and slicing. Usually this is done by using chemicals such as **ALCOHOL** and **FORMALDEHYDE**.
- **Stains** have been developed that react differently with different cell structures, depending on their chemical composition or enzymatic activity. The use of stains containing **radioactive atoms**, known as **AUTORADIOGRAPHY**, often involves feeding cells specific compounds with radioactive atoms and then observing the distribution of radioactive events on a **photographic film emulsion**.



Relative Powers of Microscopes

1. **Compound Light Microscope**: maximum **resolving power** = 200 nm (maximum useful magnification = ~1000 X)
2. **Transmission Electron Microscope**: maximum resolving power = 0.5 nm (maximum useful magnification = >30,000 X)
3. **Scanning Electron Microscope**: Gives vivid 3-D images, but less magnification than transmission EM

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Respiratory System 119 Cardiac Cycle 121 Development of Breathing 123 25 Immune System 125 1st and 2nd Lines of Defense 125 3rd Line of Defense 126 Diseases Uses of Immune System 128 26 Renal System Digestive System 130 Homeostasis 130 Parts of Renal System 131 Types of Digestion 132 Parts of Digestive System 133 Digestion Regulation 134 27 Protists Fungi 136 Protists 136 Protist Groups 137 General Fungi Characteristics 139 Fungi Groups 140 28 Evolution of Plants 142 Nonvascular Plants 142 Seedless Vascular Plants Gymnosperms 143 Angiosperms 144 29 Plant Body 145 Meristems Tissues 145 Roots 147 Stem 148 Leaves 149 30 Plant Reproduction 151 Flower Formation 151 Pollination 153 Plant Asexual Reproduction 154 31 Plant Development 156 Early Plant Formation 156 Seed and Fruit Formation 157 Plant Chemical Regulation 157 32 Evolution 159 Natural Selection 159 Charles Darwin s Major Points 160 33 Behavioral Ecology 162 Optimization 162 Mating 163 Fecundity Selection 164 34 Community Ecology 165 Interactions 165 Populations 166 Niches 167 Life Sciences Self Study Guide 2 Zimasa Sanda,2022 The Key Study Guide ,2003 **The Key** ,2004

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Table of Contents Raycroft Biology 12 Reproduction Study Guide

1. Understanding the eBook Raycroft Biology 12 Reproduction Study Guide
 - The Rise of Digital Reading Raycroft Biology 12 Reproduction Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Raycroft Biology 12 Reproduction 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 Raycroft Biology 12 Reproduction Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Raycroft Biology 12 Reproduction Study Guide
 - Personalized Recommendations
 - Raycroft Biology 12 Reproduction Study Guide User Reviews and Ratings
 - Raycroft Biology 12 Reproduction Study Guide and Bestseller Lists

5. Accessing Raycroft Biology 12 Reproduction Study Guide Free and Paid eBooks
 - Raycroft Biology 12 Reproduction Study Guide Public Domain eBooks
 - Raycroft Biology 12 Reproduction Study Guide eBook Subscription Services
 - Raycroft Biology 12 Reproduction Study Guide Budget-Friendly Options
6. Navigating Raycroft Biology 12 Reproduction Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Raycroft Biology 12 Reproduction Study Guide Compatibility with Devices
 - Raycroft Biology 12 Reproduction Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Raycroft Biology 12 Reproduction Study Guide
 - Highlighting and Note-Taking Raycroft Biology 12 Reproduction Study Guide
 - Interactive Elements Raycroft Biology 12 Reproduction Study Guide
8. Staying Engaged with Raycroft Biology 12 Reproduction Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Raycroft Biology 12 Reproduction Study Guide
9. Balancing eBooks and Physical Books Raycroft Biology 12 Reproduction Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Raycroft Biology 12 Reproduction Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Raycroft Biology 12 Reproduction Study Guide
 - Setting Reading Goals Raycroft Biology 12 Reproduction Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Raycroft Biology 12 Reproduction Study Guide
 - Fact-Checking eBook Content of Raycroft Biology 12 Reproduction 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
- Interactive and Gamified eBooks

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