

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.

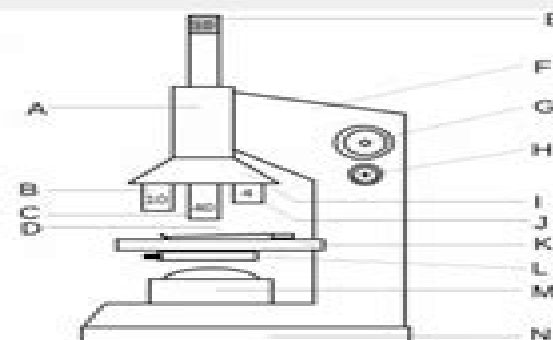
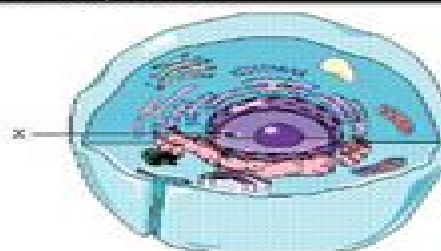
The Cell Theory can be summarized as:

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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Table of Contents Raycroft Biology 12 Test

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

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