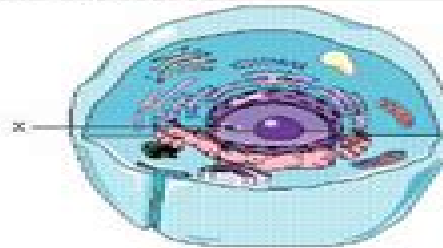


THE CELL THEORY

- 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:

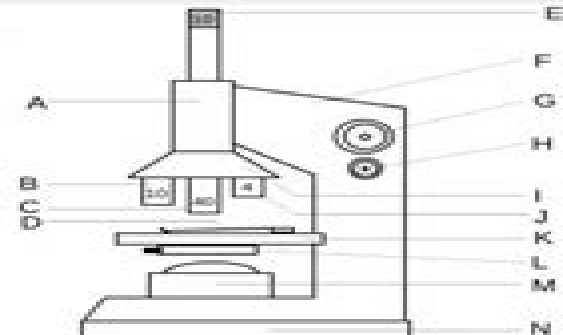


- All living organisms are made up of one or more cells**
- The cell is the basic unit of life**
- All cells come from the division of pre-existing cells**

- 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

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

Raycroft Biology 12 Nervous System

Clifford Lane



Raycroft Biology 12 Nervous System:

The book delves into Raycroft Biology 12 Nervous System. Raycroft Biology 12 Nervous System is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Raycroft Biology 12 Nervous System, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Raycroft Biology 12 Nervous System
 - Chapter 2: Essential Elements of Raycroft Biology 12 Nervous System
 - Chapter 3: Raycroft Biology 12 Nervous System in Everyday Life
 - Chapter 4: Raycroft Biology 12 Nervous System in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Raycroft Biology 12 Nervous System. This chapter will explore what Raycroft Biology 12 Nervous System is, why Raycroft Biology 12 Nervous System is vital, and how to effectively learn about Raycroft Biology 12 Nervous System.
3. In chapter 2, this book will delve into the foundational concepts of Raycroft Biology 12 Nervous System. This chapter will elucidate the essential principles that must be understood to grasp Raycroft Biology 12 Nervous System in its entirety.
4. In chapter 3, the author will examine the practical applications of Raycroft Biology 12 Nervous System in daily life. The third chapter will showcase real-world examples of how Raycroft Biology 12 Nervous System can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Raycroft Biology 12 Nervous System in specific contexts. The fourth chapter will explore how Raycroft Biology 12 Nervous System is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Raycroft Biology 12 Nervous System. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Raycroft Biology 12 Nervous System.

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Table of Contents Raycroft Biology 12 Nervous System

1. Understanding the eBook Raycroft Biology 12 Nervous System
 - The Rise of Digital Reading Raycroft Biology 12 Nervous System
 - Advantages of eBooks Over Traditional Books
2. Identifying Raycroft Biology 12 Nervous System
 - 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 Nervous System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Raycroft Biology 12 Nervous System
 - Personalized Recommendations
 - Raycroft Biology 12 Nervous System User Reviews and Ratings
 - Raycroft Biology 12 Nervous System and Bestseller Lists
5. Accessing Raycroft Biology 12 Nervous System Free and Paid eBooks
 - Raycroft Biology 12 Nervous System Public Domain eBooks
 - Raycroft Biology 12 Nervous System eBook Subscription Services
 - Raycroft Biology 12 Nervous System Budget-Friendly Options
6. Navigating Raycroft Biology 12 Nervous System eBook Formats
 - ePub, PDF, MOBI, and More
 - Raycroft Biology 12 Nervous System Compatibility with Devices
 - Raycroft Biology 12 Nervous System Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Raycroft Biology 12 Nervous System
 - Highlighting and Note-Taking Raycroft Biology 12 Nervous System
 - Interactive Elements Raycroft Biology 12 Nervous System

8. Staying Engaged with Raycroft Biology 12 Nervous System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Raycroft Biology 12 Nervous System
9. Balancing eBooks and Physical Books Raycroft Biology 12 Nervous System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Raycroft Biology 12 Nervous System
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Raycroft Biology 12 Nervous System
 - Setting Reading Goals Raycroft Biology 12 Nervous System
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Raycroft Biology 12 Nervous System
 - Fact-Checking eBook Content of Raycroft Biology 12 Nervous System
 - 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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