

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.

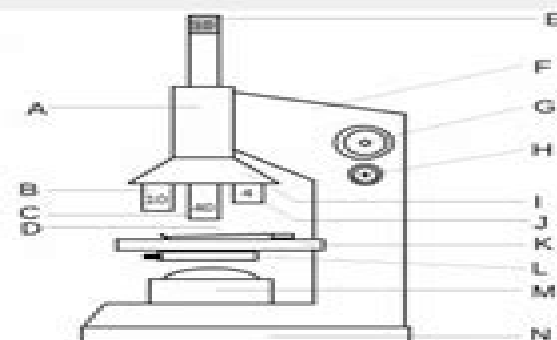
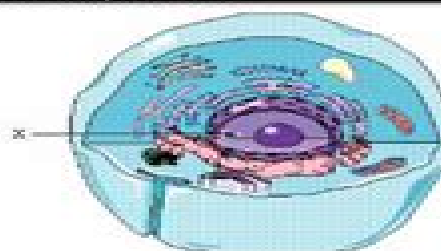
The Cell Theory can be summarized as:

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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International Review of Cytology, 1997-07-23 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research Key Features Cell Model Systems in Plant Cytoskeleton Studies The Structure Function and Assembly of Actin Filament Bundles Nuclear Components with Microtubule Organizing Properties in Multicellular Eukaryotes Functional and Evolutionary Considerations Sialic Acids in Molecular and Cellular Interactions Embryonic Neural Chimeras in Brain and Head Development

The Journal of Cell Biology, 2001 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972

Molecular Biology, 1996

DNA and Cell Biology, 1996

Vasculitis Gene V. Ball, S. Louis Bridges, 2008 This is a new edition of the successful textbook providing updated detailed information on clinical epidemiologic pathophysiologic and therapeutic aspects of common and rare forms of vasculitis New chapters include pathology of vasculitis autoantibodies animal models of vasculitis and PET scanning Separate sections are devoted to basic science clinical manifestations commonly seen in vasculitis imaging and percutaneous interventions individual diseases and syndromes as well as conditions which can mimic vasculitis Subsumed under clinical manifestations are chapters some new which deal with skin oral ulcers eyes cardiopulmonary system nervous system the gastrointestinal track kidney and digital ischemia and Raynaud s phenomenon Other chapters address diagnostic approaches to adults and to children with suspected vasculitis as well as assessment of disease activity and damage Individual chapters are written by authorities from throughout the world

Science John Michels

(Journalist), 1914

Textbook of Coronary Thrombosis and Thrombolysis R. C. Becker, 1998-01-31 Teleologically the hemostatic mechanism is among The of Coronary Thrombosis and the most fundamental yet complex physiologic process in essence represents a heartfelt gift of cesses in humans Early scientists and physicians were knowledge from a dedicated group of scientists and fascinated by the blood s ability to remain in a liquid clinicians who collectively have set out on a mission state only to clot in response to vascular injury The to minimize the societal impact of hemostasis in the cellular and

noncellular components of normal wrong place The book is divided into four distinct hemostasis took centuries to discover and the intricate sections Part 1 Scientific Principles lays down the bases of their delicate interactions are still being unraveled supporting foundation Part 2 Clinical Application needed today As is so often the case an in depth of Scientific Principles places the knowledge base in appreciation of physiologic hemostasis representing a working perspective directly applying science to basic life sustaining sequence of events paved the patient care Part 3 New Dimensions provides a way for understanding abnormal hemostasis or glimpse of tomorrow Steering the field clear of se pathologic thrombosis Aristotle Malpighi and proclaimed victory and the dangers of complacency as Osier representing but a few of the founding fathers we move into the 21st century Part 4 Evolution of in the field would undoubtedly be honored to see Thrombocardiology focuses on laboratory standards their observations form the template for lifesaving clinical trials and drugs in development

Molecular Biology of the Cell, 1996 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function

American Physical Education Review, 1919 Includes abstracts of magazine articles and Book reviews

School & Society James McKeen Cattell, Will Carson Ryan, Raymond Walters, 1926

Princeton Alumni Weekly, 1911

University Record University of Chicago, 1906

The University Record University of Chicago, 1906

School and Society, 1926

Current List of Medical Literature, 1961 Includes section Recent book acquisitions varies Recent United States publications formerly published separately by the U S Army Medical Library

Autoimmune Diabetes: Molecular Mechanisms and Neoantigens Arnaud Zaldumbide, Sally C. Kent, 2022-03-14

Rapport du Comité consultatif, 1911

New Scientist and Science Journal, 1999

Principles and Practice of Gynecologic Oncology William J. Hoskins, Carlos A. Perez, Robert Crabill Young, 1992

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