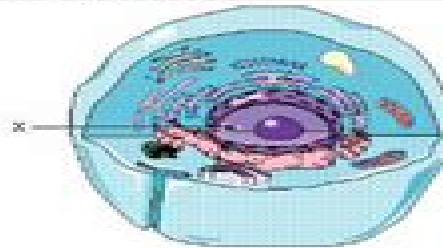


### THE CELL THEORY

- 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:

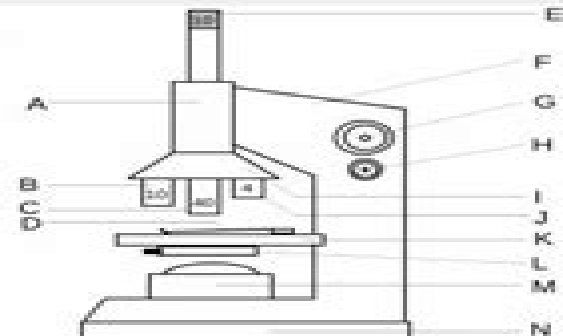


1. All living organisms are made up of one or more cells
2. The cell is the basic unit of life
3. All cells come from the division of pre-existing cells

- 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  $\mu\text{m}$ ).
  - the smallest cells of the microorganism **mycoplasma** are 0.3  $\mu\text{m}$  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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