

Microscopy: The magnification of cells

- All organisms are made of cells
 - o Many organisms are single-celled
 - o Even in multicellular organisms, the cells that make up an organism are similar
- Therefore, the smallest unit of organization is the cell
- All cells are viewed by their own microscope cells

Microscopy: The study of cells, organelles and subcellular structures (the study of microbiology)

- The structure and form of cells compared with the invention of microscope in 1665 and their improvement in the 17th century
- In a light microscope (LM), visible light passes through the specimen and then through glass lenses
 - o The lenses allow light such that the image is magnified and the eye is able to view a clear image
- Microscopes vary in magnification and resolving power
 - o Magnification is the amount an object is made to be seen
 - o Resolving power is a measure of image clarity
 - o In a microscope the same two points can be perceived separately by distinguished as two separate points
 - o Resolution is limited by the shortest wavelength of the radiation used for imaging
- The shortest wavelength of light microscope is about 400 nanometers (nm), the end of a visible spectrum
- Light microscope can magnify effectively to about 1,000 times the size of the actual specimen
 - o At higher magnification, the image is blurred
- Structures revealed in the LM including those attached to the cell and organelles and components is restricted to labeled as they exist in
- Using a light microscope to observe individual cells, it cannot resolve much of the internal structure, especially arrangements
- To observe smaller structures, we use an electron microscope (EM), which focuses a beam of electrons through the specimen to view the surface
 - o Because electrons is directly related to wavelength, used electron microscope reveal smaller structures than visible light microscope
 - o Therefore, the resolution of a modern EM is about 0.1 nm (nanometer) long, but the practical limit is about 2 nm
- Transmission electron microscope (TEM) can view things to study the structure organization of cells
 - o In TEM, an electron beam through a thin section of the specimen
 - o The image is focused and magnified by electromagnetic

Campbell Biology Chapter 7 Study Guide

WJ Hussar



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