

Chapter 4 - A tour of the cell

- Cells are organism's basic units of structure and function

Concept 4.1: Biologists use microscopes and tools of biochemistry to study cells

Microscopy

- **Light microscope (LM):** visible light passes through specimen and then through glass lenses:
 - Lenses refract light so that specimen is magnified
 - Observes living cells
- Magnification = ratio of object's image size to real size
- Resolution: measure of clarity of image
- Contrast: difference in brightness between light and dark areas of image
- **Organic stain:** membrane-enclosed structures within eukaryotic cells
- **Electron microscope (EM):** focuses beams of electrons through specimen or onto surfaces
 - Revealed many subcellular structures that methods used to prepare specimen (fix, kill) cells
- **Scanning electron microscope (SEM):** detailed study of topography of specimen's surface (or sample) coated in thin film of gold, translate patterns of electrons into electronic signal sent to video screen
- **Transmission electron microscope (TEM):** internal structure of cells; aim electron beam through very thin section of specimen

Cell Fractionation

- **Cell fractionation:** techniques for studying cell structure and function
 - Break up cells placed in tube, spun in centrifuge. Largest cell components sink to bottom forming a pellet
 - Liquid above pellet poured into new tube and centrifuged at a higher speed for longer, resulting in pellets with nucleus, mitochondria, and chloroplasts if cells are from photosynthetic organisms; pieces of membranes, and ribosomes
 - Prepare specific cell components in bulk and identify functions

Concept 4.2: Eukaryotic cells have internal membranes that compartmentalize their functions

- Cells are prokaryotic and eukaryotic
- Bacteria and archaea are prokaryotic

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Mary Burnham, Carol Hurd

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