

Chapter 4- A tour of the cell

- Cells organisms's basic unit of structure and function

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

Microscopy

- **Light microscope (LM):** visible light passed through specimen and then through glass lenses
 - Lenses refract light so that specimen is magnified
 - Studies 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
- **Organelles:** membrane-enclosed structures within eukaryotic cells
- **Electron microscope (EM):** focuses beams of electrons through specimen or onto surface
 - Revealed many subcellular structures but methods used to prepare specimen kills cells
- **Scanning electron microscope (SEM):** detailed study of topography of specimen; scans surface of sample coated in thin film of gold, translate pattern of electrons into electronic signal sent into video screen
- **Transmission electron microscope (TEM):** internal structure of cells; aims electron beam through very thin section of specimen

Cell Fractionation

- **Cell fractionation:** technique for studying cell structure and function
 - Broken up cells placed in tube, spun in centrifuge, largest cell components settle at bottom forming a pellet
 - Liquid above pellet poured into new tube and centrifuged at a higher speed for longer, resulting in pellets with nuclei, mitochondria, (and chloroplasts if cells are from photosynthetic organisms), pieces of membrane, 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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