

## **Chapter 6: A Tour of the Cell**

### **6.1 "To study cells, biologists use microscopes and the tools of biochemistry"**

#### ***Microscopy***

- *In light microscopes (LM) visible light is passed through the specimen and then through glass lenses. Then lenses refract the light in such a way that the image is magnified*
- *Magnification is the ratio of an object's image size to its real size. Resolution is a measure of the clarity of the image*
- *Most organelles are too small to be seen by the LM*
- *Electron microscope focuses a beam of electrons through the specimen or onto its surface. It can achieve a resolution of 0.002. Biologists use the term ultrastructure to refer to a cell's anatomy as revealed by an EM*
- *There are two types of EMs: scanning electron microscope (SEM) and transmission electron microscope (TEM)*

#### ***Isolating Organelles by Cell Fractionation***

- *The goal of cell fractionation is to take cells apart and separate the major organelles from one another. The instrument used is the centrifuge. Ultracentrifuges are the most powerful, spinning as fast as 130,000 revolutions per minute (RPM)*

### **6.2 "Eukaryotic cells have internal membranes that compartmentalize their functions"**

- *Organelles are found in cytosol*

# Campbell Biology Chapter Outlines

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