

## Chapter 6: A Tour of the Cell

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

1. The study of cells has been limited by their small size, and so they were not seen and described until 1665, when Robert Hooke first looked at dead cells from an oak tree. His contemporary, Anton van Leeuwenhoek, crafted lenses, and with the improvements in optical aids, a new world was opened. *Magnification* and *resolving power* limit what can be seen. Explain the difference.  
*Magnification is the ratio of an object's image to its real size. In contrast, resolution measures the clarity of the image. How clear the picture is ~ accuracy in visualization*  
*versus*  
*How accurate the picture is ~ to scale? y = N*
2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of the electron microscopes?

*A major disadvantage of the electron microscopes is their inability to reflect color*

3. Study the electron micrographs in your text. Describe the different types of images obtained from:  
**scanning electron microscopy (SEM)**  
*The SEM provides good 3-D images which is good for getting a good depth perception, - used for detailed studies*  
**transmission electron microscopy (TEM)**  
*2-D imaging that is used/beneficial for achieving extreme detail where you're able to compare well since you can enhance contrast*
4. In *cell fractionation*, whole cells are broken up in a blender, and this slurry is centrifuged several times. Each time, smaller and smaller cell parts are isolated. This will isolate different organelles and allow study of their biochemical activities. Which organelles are the smallest ones isolated in this procedure? *The ribosomes*

### Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions

5. Which two domains consist of prokaryotic cells?

*Bacteria and Archaea consist of prokaryotic cells*  
*Euk: fungi, animals & plants*

6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.  
*The DNA of the eukaryotic cell is in the nucleus, versus in prokaryotic cells, the DNA is in the nucleoid (not membrane enclosed)*

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