

Name _____ Period _____

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: Ratio of actual size to visible size
Resolving power: Clarity

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?

Cell dies in the process

3. Study the electron micrographs in your text. Describe the different types of images obtained from:
scanning electron microscopy (SEM)

Detail of surface textures (What it looks like)

transmission electron microscopy (TEM)

Detail of components (What makes up it)

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?

Ribosomes

Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions

5. Which two domains consist of prokaryotic cells?

Archaea, Bacteria

6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

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