

Chapter 6: A Tour of the Cell

Identify how common techniques of microscopy and biochemistry are used in cell biology.

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 the bark of an oak tree. His contemporary, Antoni van Leeuwenhoek, crafted lenses and opened a new world with the improvements in optical aids. *Magnification* and *resolving power* limit what can be seen. Explain the difference.

The difference was in the magnification, the ratio of the objects image size to its real size, as well as resolving power which is the ability of the microscope to show detail.

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 microscope?

The methods used from the electron microscope which are used in order to prepare the specimen end up killing the cells.

3. Study the electron micrographs in your text. Describe the different types of images obtained from:

scanning electron microscopy (SEM)- This type of microscopy shows the surface of a cell from a trachea cover with cell projections.

transmission electron microscopy (TEM)- This type of microscopy profiles a thin section of a specimen, which results in various views of the cells prepared.

4. Which two domains consist of prokaryotic cells? Bacteria and Archaea

5. On the figure of a prokaryotic cell, label each of these features and give its function or description.

cell wall: Rigid structure outside of the plasma membrane.

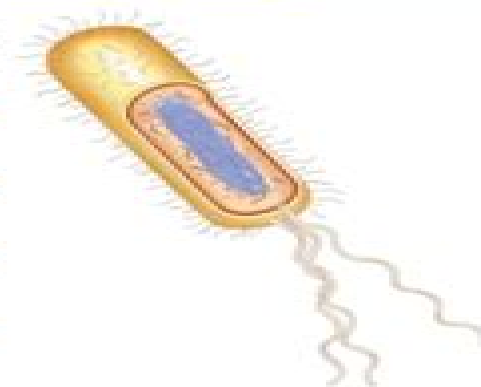
plasma membrane: Membrane enclosing the cytoplasm.

bacterial chromosome: Carries genes in the form of DNA.

nucleoid: The region at which the cell's DNA is located.

ribosomes: Is a micro-machine for making proteins.

flagella: Locomotion organelles of some bacteria.



Assessment Chapter C The Cell In Action

Jianjun Gao



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