Ch 7-1: Life is Cellular Essential questions:

- What are the principles of cell theory?
- What are the differences between prokaryote and eukaryote cells?
- What is the function of major cell structures?

7-1 Life Is Cellular

1. The Cell Theory

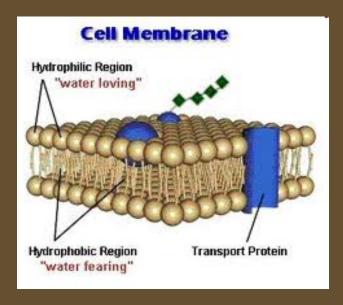
- a. van Leeuwenhoek 1st to study living organisms
 w/ microscope
- b. Hooke "cells"
- c. summary of cell theory
 - 1. All living things are made of cells
 - Cells are basic unit of structure and function in living things
 - 3. New cells come from existing cells

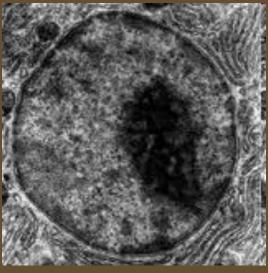


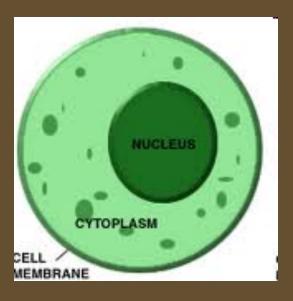


B. Basic Cell Structures

- 1. cell membrane thin, flexible barrier
- 2. nucleus contians genetic material, control center of cell
- 3. cytoplasm fills rest of cell, jelly-like



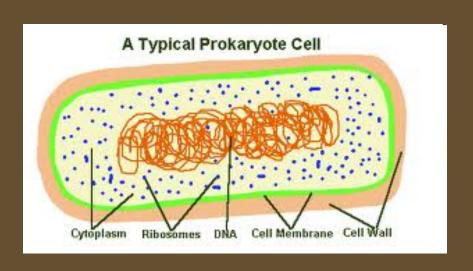


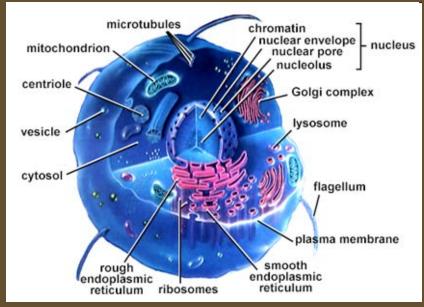


C. Prokaryotes and Eukaryotes

Prokaryotes – have cell membranes & cytoplasm, but no nucleus
 ex: bacteria

2. Eukaryotes – cells have nucleus, most have **organelles** that perform specialized functions ex: all plants, animals, fungi, etc.





7-2: Eukaryotic Cell Structures

