

- 3. Multicellular
- 4. Cell walls of cellulose
- E. Animalia
 - 1. Eukaryotes
 - 2. Heterotrophic
 - 3. No cell walls

VI. Heterotrophic Prokaryote

- A. Cell Wall
 - 1. Made of carbohydrates and some with proteins as well
 - 2. Mechanical protection of cell
 - 3. Freely permeable to H₂O
- B. Cell Membrane
 - 1. Made of lipids and proteins
 - a. Proteins
 - i. Gates into/out of cell
 - ii. Enzymes = protein that controls chemical reactions
 - 2. Functions:
 - a. Controls what enters and leaves the cell
 - b. Site of enzyme activity
- C. DNA
 - 1. Nucleic acid, circular
 - 2. Functions
 - a. Heredity
 - b. Cell control
 - 3. Some don't consider bacterial DNA to be a chromosome
- D. Plasmid
 - 1. Little circular pieces of DNA
 - 2. Integrate into or cut out of larger DNA
 - 3. Function: transmit DNA to other bacteria
- E. Ribosomes
 - 1. Made of proteins and nucleic acid