

CH 18 Classification

I. Finding Order in Diversity

A. Why Classify?

- 1.

B. Assigning Scientific Names

1. Early Efforts at Naming Organisms

2. Binomial Nomenclature

C. Linnaeus's System of Classification

- 1.

- 2.

- 3.

- 4.

- 5.

- 6.

- 7.

II. Modern Evolutionary Classification

A. Which Similarities are Most Important?

- 1.

B. Evolutionary Classification

- 1.

- 2.

C. Classification Using Cladograms

- 1.

D. Similarities in DNA and RNA

1. Similar Genes
2. DNA Evidence

E. Molecular Clocks

- 1.

III. Kingdoms and Domains

A. The Tree of Life Evolves

1. Five Kingdoms
2. Six Kingdoms

B. The Three-Domain System

- 1.

C. Domain Bacteria

- 1.

D. Domain Archaea

- 1.

E. Domain Eukarya

1. Protista
2. Fungi
3. Plantae
4. Animalia