

CONCEPT: OVERVIEW OF GENOMICS

- **Genomics** is the study of genomes in their entirety
 - **Bioinformatics** is the analysis of the information content of genomes
 - Genes, regulatory sequences, protein binding regions, non-coding RNAs
 - **Comparative genomics** compares genomes of closely and distantly related species for evolution studies
 - **Functional genomics** uses laboratory methods to understand gene and protein functions

PRACTICE:

1. Genomics is the study of what?
 - a. Specific genes and their activities
 - b. The information content of a genome
 - c. The study of genomes in their entirety
 - d. The study of gene development

2. Which of the following is not a class of genomics?
- a. Bioinformatics
 - b. Comparative genomics
 - c. Darwinian genomics
 - d. Functional genomics