

Genetics

- I. Genetics
 - A. The study of patterns of inheritance and variation in organisms
 - 1. Inheritance: Passing of traits from parents to offspring
- II. Gregor Mendel
 - A. “Father of Genetics”
 - B. Published his findings in 1865
 - 1. Concepts of Genetics
 - a. Law of Segregation
 - i. Organisms receive one copy from each parent
 - ii. These copies will be separated in gametes through meiosis
 - b. Law of Independent Assortment
 - i. Genes for different traits are inherited separately from each other
 - c. Rule of Dominance
 - i. If there are two versions of a trait, one dominant trait will mask the other recessive trait