

Chapter 14 Biology notes: Mendel and the Gene Idea

- **CONCEPT 14.1: Mendel used the scientific approach to identify two laws of inheritance:** Mendel discovered the basic principles of heredity by breeding garden peas in carefully planned experiments
- **Mendel's Experimental, Quantitative Approach:** Mendel's fresh approach to the study of heredity allowed him to deduce principles that had remained elusive to others. -A heritable feature that varies among individuals (such as flower color) is called a **character**. -Each variant for a character, such as purple or white color for flowers, is called a **trait**.
- Peas were available to Mendel in many different varieties. -Other advantages of using peas, Short generation time, Large numbers of offspring, Mating could be controlled; plants could be allowed to self-pollinate or could be cross-pollinated
- Mendel chose to track only those characters that occurred in two distinct alternative forms. -He also started with varieties that were **true-breeding** (plants that produce offspring of the same variety when they self-pollinate)
- In a typical experiment, Mendel mated two contrasting, true-breeding varieties, a process called **hybridization**. -The true-breeding parents are called the **P generation**. -The hybrid offspring of the P generation are called the **F₁ generation**. -When F₁ individuals self-pollinate or cross-pollinate with other F₁ hybrids, the **F₂ generation** is produced
- **The Law of Segregation:** In the 1800s, the explanation of heredity was the "blending" hypothesis. -When Mendel crossed contrasting, true-breeding white- and purple-flowered pea plants, all of the F₁ hybrids were purple. -This result was not predicted by the blending hypothesis
- When Mendel crossed the F₁ hybrids, many of the F₂ plants had purple flowers, but some had white

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