

CHAPTER 14 MENDEL AND THE GENE IDEA

Drawing from the Deck of Genes

What principles account for the passing of traits from parents to offspring?

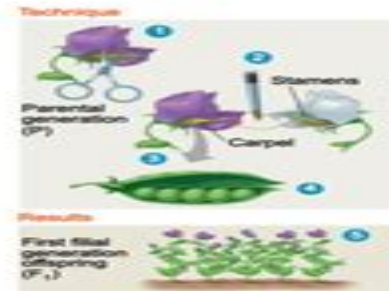
- The “blending” hypothesis is the idea that genetic material from the two parents blends together (like blue and yellow paint blend to make green)
- The “particulate” hypothesis is the idea that parents pass on discrete heritable units (genes)
- Mendel documented a particulate mechanism through his experiments with garden peas

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

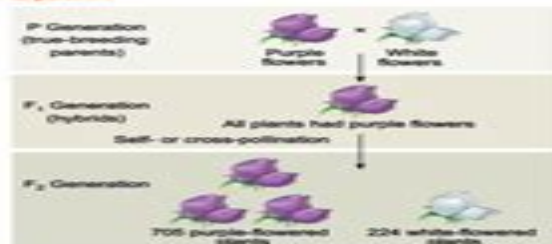
- Mendel's approach allowed him to deduce principles that had remained elusive to others
- Why peas?
 - ✓ Peas were available to Mendel in many different varieties
 - ✓ Short generation time
 - ✓ Large numbers of offspring
 - ✓ Mating could be controlled; plants could be allowed to self-pollinate or could be cross-pollinated
- Mendel chose to track only those characters that occurred in two distinct alternative forms
- He also used 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 the **P generation**
- They hybrid offspring of the P generation are called the **F₁ generation**
- When the F₁ individuals self-pollinate or cross-pollinate with other F₁ hybrids, the **F₂ generation** is produced



The Law of Segregation

- When Mendel crossed contrasting, true-breeding white and purple flowered pea plants, all of the F₁ hybrids were purple
- When Mendel crossed the F₁ hybrids, many of the F₂ plants had purple flowers, but some had white
- Mendel discovered a ratio of 3:1, purple to white flowers, in the F₂ generation

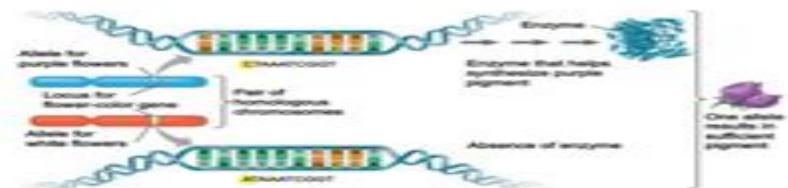
Experiment



- Mendel reasoned that only the purple flower factor was affecting flower color in the F₁ hybrids
- Mendel called the purple flower color a dominant trait and the white flower color a recessive trait
- The factor for white flowers was not diluted nor destroyed because it reappeared in the F₂ generation
- Mendel observed the same pattern of inheritance in six other pea plant characters, each represented by two traits
- What Mendel called a “heritable factor” is what we now call a gene

Mendel's Model

- Mendel developed a hypothesis to explain the 3:1 inheritance pattern he observed in F₂ offspring
- Four related concepts make up this model
- These concepts can be related to what we now know about genes and chromosomes
- First: alternative versions of genes account for variations in inherited characters
- For example, the gene for flower color in pea plants exist in two versions, one for purple flowers and the other for white flowers



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Mark Anestis, Kelcey Burris



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