

AP Biology Ch. 10 Meiosis and Sexual Life Cycles

Key concepts

- 10.1 Offspring acquire **genes** from parents by inheriting chromosomes.
- 10.2 **Fertilization** and **meiosis** alternate in sexual life cycles.
- 10.3 Meiosis reduces the number of chromosome sets from **diploid** to **haploid**.
- 10.4 Genetic variation produced in sexual life cycles contributes to **evolution**.
1. **Heredity** is the transmission of traits from one generation to the next.
2. **Variation** - exists in populations that reproduce sexually, offspring are not identical to their parents.
3. **Genetics** is the scientific study of heredity and hereditary variation.
4. Each parent passes on **23** chromosomes to their offspring. These chromosomes are made up of many sections of DNA called **genes**.
5. All of an individual's genes are called their **genome**.
6. In animals and plants, reproductive cells called **gametes** are the vehicles that transmit genes from one generation to the next.
7. Except for small amounts of DNA in the **mitochondria** and **chloroplasts**, the DNA of a eukaryotic cell is packaged into **chromosomes** in the **nucleus**.
8. One chromosome has between several **hundred** to a few **thousand** genes.
9. A gene's specific location along the length of a chromosome is called the gene's **locus (loci)**.
10. **Asexual reproduction** is when a single individual gives rise to offspring:
 - These offspring are **identical** to their parent.
 - This type of reproduction occurs through the process of **mitosis**
 - Variation can occur through **mutations**
 - Some multi-celled organisms can reproduce this way through **cloning** (hydra)

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