

11.4 Meiosis

Lesson Objectives

-  Contrast the number of chromosomes in body cells and in gametes.
-  Summarize the events of meiosis.
-  Contrast meiosis and mitosis.
-  Describe how alleles from different genes can be inherited together.

Lesson Summary

Chromosome Number **Homologous** chromosomes are pairs of chromosomes that correspond in body cells. One chromosome from each pair comes from each parent.

- ▶ A cell that contains both sets of homologous chromosomes has a **diploid** number of chromosomes (meaning “two sets”).
- ▶ **Haploid** cells contain only one set of chromosomes. Gametes are haploid.

Phases of Meiosis **Meiosis** is the process that separates homologous pairs of chromosomes in a diploid cell, forming a haploid gamete. The phases are as follows:

- ▶ Meiosis I, which is preceded by a replication of chromosomes. Its stages are
 - Prophase I: Each replicated chromosome pairs with its corresponding homologous chromosome forming a **tetrad**. During tetrad formation, alleles can be exchanged between chromatids, a process called **crossing-over**.
 - Metaphase I: Paired homologous chromosomes line up across the center of the cell.
 - Anaphase I: Spindle fibers pull each homologous pair toward opposite ends of the cell.
 - Telophase I: A nuclear membrane forms around each cluster of chromosomes. Cytokinesis then occurs, resulting in two new cells. The resulting daughter cells contain chromosome sets that are different from each other and the parent cell.
- ▶ Meiosis II: Chromosomes do not replicate.
 - Prophase II: Chromosomes, each consisting of two chromatids, become visible.
 - Metaphase II, Anaphase II, Telophase II, and Cytokinesis: These phases are similar to meiosis I. Four haploid cells form. They are the gametes. During fertilization, two gametes unite forming a **zygote**.

Comparing Meiosis and Mitosis

- ▶ Mitosis is one cell division that results in two genetically identical diploid cells.
- ▶ Meiosis is two cell divisions that result in four genetically different haploid cells.

Gene Linkage and Gene Maps

- ▶ Alleles tend to be inherited together if they are located on the same chromosome.
- ▶ Chromosomes, not genes, segregate independently.
- ▶ The farther apart genes are on a chromosome, the more likely is cross over.
- ▶ Information on linkage and the frequency of crossing-over lets geneticists construct maps of the locations of genes on chromosomes.

Section 11 5 Answer Key

Yi-Tong Ma

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