MITOSIS vs. MEIOSIS

Definitions

Mitosis: A specific stage in the cell cycle where somatic cells divide, resulting in two identical diploid daughter cells.

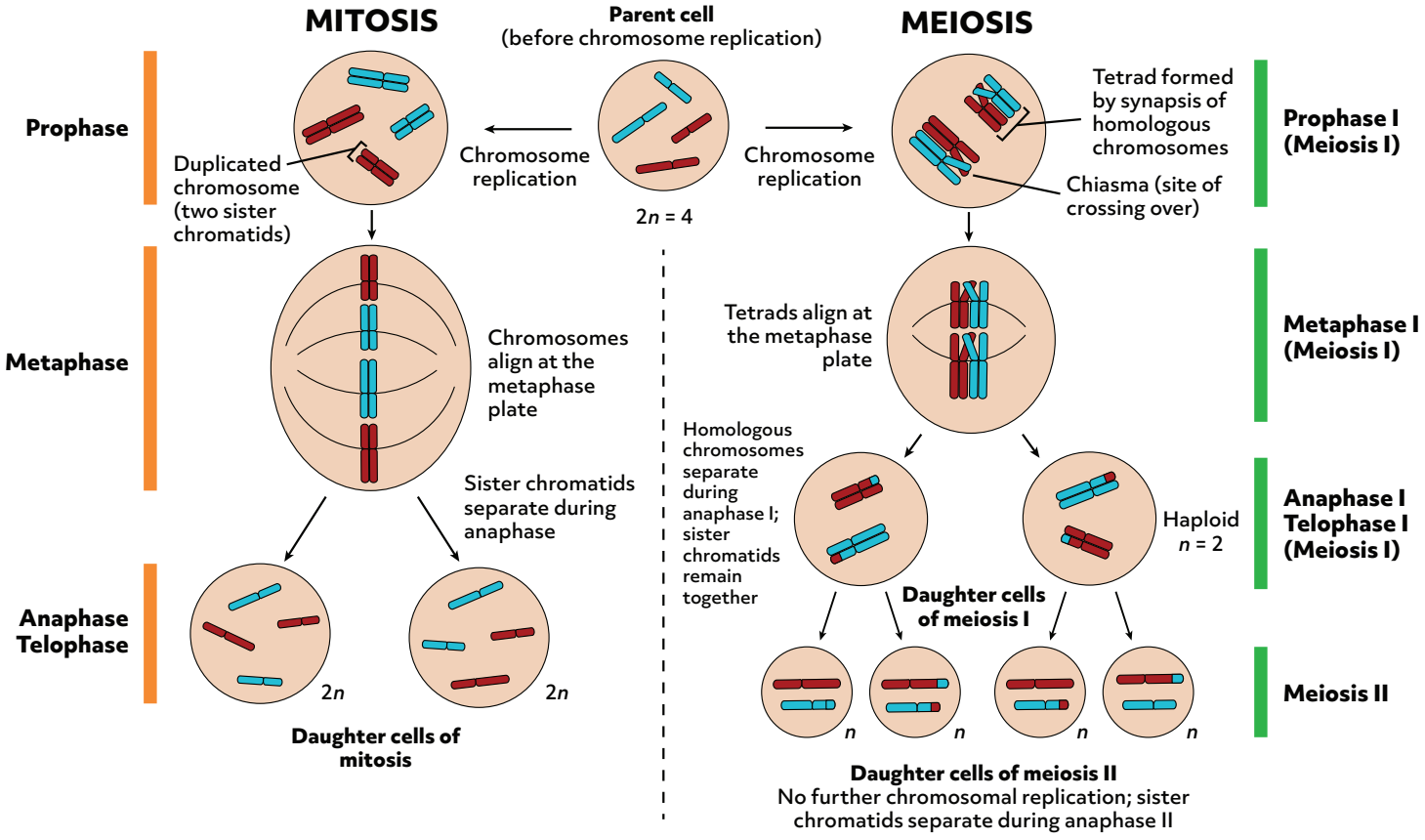
Meiosis: The process by which sex cells divide, resulting in four haploid gametes.

Diploid means a cell has two copies of each chromosome, and **haploid** means a cell has one copy of each chromosome.

Compare and Contrast

Mitosis	Meiosis
- A type of cell division *-Occurs in somatic cells* *-Occurs in four phases:* *• prophase • metaphase • anaphase • telophase* *-Results in two genetically identical daughter cells.* *-Resulting daughter cells are diploid* *-Chromosome number remains the same*	*-Also a type of cell division* *-Occurs in sex cells (egg & sperm)* *-Occurs in eight phases total (same phases as mitosis but repeated)* *-Results in four genetically unique daughter cells* *-Resulting daughter cells are haploid* *-Chromosome number is halved in each daughter cell*

Stages



Scan for more resources!