

# MITOSIS AND MEIOSIS

## A. THE PROCESS OF MITOSIS: CELL DUPLICATION AND GENETIC REPLICATION

**Mitosis** is a critical biological process, ensuring that cells divide and replicate their genetic material accurately. It is essential for organismal growth, repair, and asexual reproduction.

- A process of cell duplication
- Genetic Replication: Ensures identical genetic material in daughter cells.
- Cell Division: Formation of two new nuclei

**Interphase:** Preparing for Division

Before mitosis, cells enter interphase, a preparatory stage where they grow, replicate organelles, and duplicate DNA.

- Interphase: Growth and DNA replication
- Organelles: Replication of cell structures
- DNA Duplication: Critical for genetic consistency



### 1. **Prophase:** Chromosomes Condense and Spindle Fibers Form

Prophase initiates visible cellular changes, with DNA condensing into chromosomes and the formation of the mitotic spindle.

- Chromosomes: DNA condenses into visible structures
- Sister Chromatids: Identical DNA copies
- Mitotic Spindle: Microtubules essential for chromosome movement

### 2. **Metaphase:** Chromosomes Align at the Cell's Equator

During metaphase, chromosomes align at the cell's equator, a step crucial for equal genetic distribution to daughter cells.

- Chromosome Alignment: Equatorial positioning for distribution
- Spindle Fibers: Attach to chromosomes for separation.

### 3. **Anaphase:** Sister Chromatids Separate and Move to Opposite Poles

Anaphase is marked by the separation of sister chromatids, moving to opposite cell poles, ensuring each new cell receives identical chromosomes.

- Chromatid Separation: Movement towards cell poles
- Genetic Distribution: Equal chromosome allocation

# Meiosis Mitosis Study Guide

**TD Snyder**

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