

# Comprehensive Study Guide: Cell Division, Genetics, and Evolution

## Interphase and Mitosis

Interphase is the critical preparatory phase of the cell cycle, during which the cell grows, duplicates its DNA, and prepares for division. It comprises three sub-phases:

- **G1 phase (Gap 1):** The cell increases in size and synthesizes proteins necessary for DNA replication.
- **S phase (Synthesis):** The cell duplicates its DNA, ensuring each daughter cell will receive an identical set of chromosomes.
- **G2 phase (Gap 2):** The cell continues to grow and prepares the necessary structures for mitosis.

Mitosis is the process of cell division that results in two genetically identical daughter cells, ensuring genetic continuity across cell generations. It is essential for growth, tissue repair, and asexual reproduction.

## Relative Frequency of Cells in Cell Cycle Phases

In a typical population of dividing cells:

- **Approximately 90–95%** are in interphase, actively preparing for division.
- **About 5–10%** are in mitosis, visible under a microscope during cell division.

This distribution reflects the fact that interphase is a prolonged period, whereas mitosis is relatively short.

# Modern Biology Study Guide Cell Division

**Mike Jess**



## **Modern Biology Study Guide Cell Division:**

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