

Mitosis

Mitosis is the process where a eukaryotic cell doubles its chromosomes (DNA) and then divides into two cells that are copies of the original cell. It is how new cells are made when an organism (like you) grows or repairs damaged tissue (like a cut).

A cell with 2 chromosomes is shown to the right in interphase. Each of these chromosomes duplicates to produce copies (sister chromatids) shown in blue to the left (all the chromosomes are not condensed and visible until prophase).

Prophase

Centrioles within the centrosome.

A spindle fiber made of microtubules made of tubulin.

In prophase, the spindle fibers begin to form and attach to the **centromeres** (shown in white) of each pair of **sister chromatids**. The **nuclear envelope** dissolves and the **centrioles** move towards opposite poles of the cell. A protein structure called the **kinetochore** connects the spindle fibers to the centromeres.

Metaphase

The spindle fibers pull the chromosomes to the center of the cell (the **metaphase plate**). We call this stage metaphase, once all the centromeres are aligned in the center of the cell.

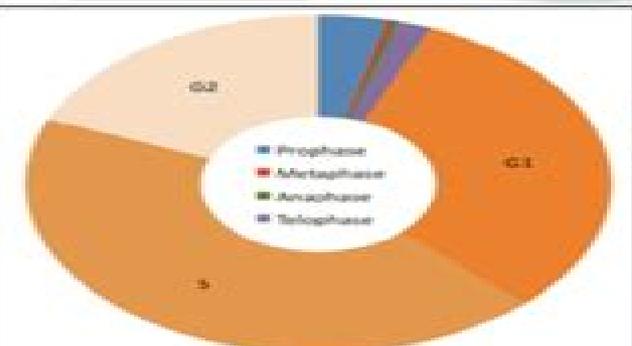
Anaphase

Anaphase is the stage of mitosis when the sister chromatids are pulled apart (they **disjoin**) and each copy is pulled to an opposite pole of the cell.

Telophase

In telophase the cell divides in half (**cytokinesis**), spindle fibers disappear and the nuclear envelope forms around each set of chromosomes.

When telophase is complete, two cells have been produced which are copies of the original cell.



Mitosis is part of a larger cell cycle. When not in mitosis the cell is in **interphase** which is divided into **G1** (Gap 1), **S** (Synthesis) and **G2** (Gap 2). The chromosomes are actually duplicated in the S phase but not visible until prophase. The relative time of each stage is shown in the pie chart above.

Mitosis Study Guide

Robert R. Redfield



Mitosis Study Guide:

Mitosis Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mitosis Study Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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