

Lab 3 Mitosis and Meiosis

Pre-Lab Questions

1. What are chromosomes made of?

Chromosomes are made up of a DNA-proteins called chromatin that is organized into subunits called nucleosomes.

2. Compare and contrast mitosis and meiosis.

Compare: Both are involved in making new cells. Both start with 2 sets of chromosomes.

Contrast: Meiosis creates gametes while Mitosis makes body cells. Mitosis occurs in somatic cells (no synapsis or crossing over) and Meiosis happens in germ cells (synapsis and crossing over take place).

3. Cancer is a disease related to uncontrolled cell division. Investigate two known causes for these rapidly dividing cells and use this knowledge to invent a drug that would inhibit the growth of cancer cells.

There are two types of cancer, environmental and genetic. The drug that I would invent would target the receptors of the cancer cell and destroy the replication process.

Experiment 1: Observation of Mitosis in a Plant Cell

Table 1: Mitosis Predictions

Predictions	I predict that interphase will take approximately 20 hours, mitosis phase will take 3 hours and cytokinesis will take 30 minutes.
Supporting Evidence	Interphase will be the longest phase. The cycle completes in approximately 18-24 hours.

Table 2: Mitosis Data

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Stage	Number of Cells in Stage	Total Number of Cells	Calculated % of Time Spent in Stage
Interphase	20	25	80%
Prophase	2	25	8%
Metaphase	0	25	0%
Anaphase	1	25	4%

Neo Sci Mitosis And Meiosis Lab 3

Tobias Bleicker



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