

# Comprehensive Study on Meiosis and Mendelian Genetics

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## 1. Introduction to Meiosis

### 1.1 Key Terms and Definitions

- **Fertilization:** The union of sperm and egg to form a zygote.
- **Gametes:** Reproductive cells (sperm and egg) that contain half the number of chromosomes typical of the species.
- **Meiosis:** Cell division to produce gametes.
- **Bivalent:** A pair of homologous chromosomes aligned during meiosis, consisting of four chromatids.
- **Trisomy:** A condition where an individual has an extra chromosome ( $2n+1$ ), leading to genetic disorders like Down syndrome.

# Mendelian Genetics And Meiosis Study Guide

**Irwin Herman Herskowitz**



## **Mendelian Genetics And Meiosis Study Guide:**

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