

GENETICS FINAL EXAM STUDY GUIDE

Exam 1

Overview

- **Meiosis:** reproductive gametic cell division, produces 4 non identical gametes (have $\frac{1}{2}$ chromosomes), PMAT I & II. $2n \rightarrow n$
- M 1: homologous pairs separate
- M 2: sister chromatids separate
- **Mitosis:** non-reproductive (somatic) cell division, produces two genetically identical 'daughter' cells. PMAT. $2n \rightarrow 2n$
- **Cell cycle:** G1: active gene expression
S phase: DNA replication
G2: Prep for cell division
M phase: cell division. Mitosis (somatic cells). Meiosis (germ-line cells)
- **Chromosomes:** Packaged DNA that has a centromere. 2 sister chromatids
- **sister chromatids:** 2 per chromosome, have centromere at center (where kinetochores form)
- **homologous pairs:** one member of the pair is inherited from each parent, pair during meiosis
- **DNA molecules:** 2 per chromatid
- **Mendel's experimental methods/design**
- **1. The law of segregation (of alleles at a locus).**
Trait expression of two alleles (one from each parent). One allele goes into each gamete.
Separate Homologs $\rightarrow$ Anaphase I
Separate Sister Chromatids* $\rightarrow$ Anaphase II
- **Exp:** A pair of alleles segregate from one another (monohybrid cross): 1 trait, 1 locus and one pair of alleles
- **2. The law of independent assortment (of chromosomes).**
Alleles at separate loci segregate independently from one another during **Metaphase I**. alleles at different loci combine randomly in gametes.
- **Exp:** More than one pair of alleles assort (dihybrid cross): 2 or more traits, 2 or more loci, 2 or more pairs of alleles.
- **six possible cross types** for one gene (locus) with two alleles and ratios

Genetics Final Complete Study Guide

S Ben Porath



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