

# 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

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