

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

Brendan G. Carr



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Table of Contents Genetics Final Complete Study Guide

1. Understanding the eBook Genetics Final Complete Study Guide
 - The Rise of Digital Reading Genetics Final Complete Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Final Complete Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Genetics Final Complete Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Final Complete Study Guide
 - Personalized Recommendations

- Genetics Final Complete Study Guide User Reviews and Ratings
- Genetics Final Complete Study Guide and Bestseller Lists
- 5. Accessing Genetics Final Complete Study Guide Free and Paid eBooks
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- 6. Navigating Genetics Final Complete Study Guide eBook Formats
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 - Adjustable Fonts and Text Sizes of Genetics Final Complete Study Guide
 - Highlighting and Note-Taking Genetics Final Complete Study Guide
 - Interactive Elements Genetics Final Complete Study Guide
- 8. Staying Engaged with Genetics Final Complete Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Final Complete Study Guide
- 9. Balancing eBooks and Physical Books Genetics Final Complete Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Final Complete Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Genetics Final Complete Study Guide
 - Setting Reading Goals Genetics Final Complete Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetics Final Complete Study Guide
 - Fact-Checking eBook Content of Genetics Final Complete Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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