

LAB 9: MENDELIAN GENETICS

Genetic Inheritance of Traits

- ◆ **Genetics** is the study of hereditary transmission and variation
- ❖ Gregor Mendel is considered the "father of genetics", yet he didn't know about chromosomes, genes or DNA
 - ONLY KNEW traits were passed onto offspring
- ❖ **What we know**
 - Hereditary information is encoded in GENES
 - Sequences of DNA code for a single pattern
 - Chromosomes are long strands of DNA containing hundreds or thousands of genes
 - Mitosis produces exact copies of diploid cells
 - Meiosis reduces diploid cells to haploid cells & results in the production of gametes
 - Homologous chromosomes are chromosomes that we get from both mom and dad
 - Alleles are different forms of genes
- ❖ **Two Laws of Chromosomal arrangement in gamete**
 - 1. Law of Segregation
 - During production of gametes two variations (alleles) of one gene **segregate** so that offspring acquire one allele from each parent during meiosis (Anaphase 1), allowing for predictable ratios of traits in the offspring
 - 2. Law of Independent Assortment
 - When 2 or more genes (traits) are inherited, the alleles of those different genes assort **independently** into gametes
 - Allele that a gamete received for another gene
 - ◆ You can determine this by using these two laws
 - 1. The ratio of different gametes any given genotype can produce
 - 2. The ratio of offspring genotypes and phenotypes produced by the cross of any two individuals

ALLELES & GENES

- ❖ Genes are portion of DNA, and they have the ability to code for a characteristic -traits
 - Many traits are coded by interactions of more than one gene
- ❖ Humans have 46 chromosomes
 - Chromosomes are made up of DNA and Protein –condensed unit of DNA
 - Genetic code represented by chromosomes
 - You inherit 23 chromosomes from your mother and 23 from your father
- ❖ Each parent contributes an allele- a variant of a gene
 - Alleles could be the same form of the gene or different forms of the gene

Lab 9 Mendelian Genetics Answers

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Metz, Allison Wilkes**



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Table of Contents Lab 9 Mendelian Genetics Answers

1. Understanding the eBook Lab 9 Mendelian Genetics Answers
 - The Rise of Digital Reading Lab 9 Mendelian Genetics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab 9 Mendelian Genetics Answers
 - 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 Lab 9 Mendelian Genetics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab 9 Mendelian Genetics Answers
 - Personalized Recommendations
 - Lab 9 Mendelian Genetics Answers User Reviews and Ratings
 - Lab 9 Mendelian Genetics Answers and Bestseller Lists
5. Accessing Lab 9 Mendelian Genetics Answers Free and Paid eBooks
 - Lab 9 Mendelian Genetics Answers Public Domain eBooks
 - Lab 9 Mendelian Genetics Answers eBook Subscription Services
 - Lab 9 Mendelian Genetics Answers Budget-Friendly Options
6. Navigating Lab 9 Mendelian Genetics Answers eBook Formats

- ePub, PDF, MOBI, and More
- Lab 9 Mendelian Genetics Answers Compatibility with Devices
- Lab 9 Mendelian Genetics Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab 9 Mendelian Genetics Answers
 - Highlighting and Note-Taking Lab 9 Mendelian Genetics Answers
 - Interactive Elements Lab 9 Mendelian Genetics Answers
- 8. Staying Engaged with Lab 9 Mendelian Genetics Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab 9 Mendelian Genetics Answers
- 9. Balancing eBooks and Physical Books Lab 9 Mendelian Genetics Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab 9 Mendelian Genetics Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lab 9 Mendelian Genetics Answers
 - Setting Reading Goals Lab 9 Mendelian Genetics Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab 9 Mendelian Genetics Answers
 - Fact-Checking eBook Content of Lab 9 Mendelian Genetics Answers
 - 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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