

Lab 11

HEREDITY AND MENDELIAN GENETICS

Monohybrid Problems with Complete Dominance

1. For each of the following diploid genotypes, indicate the possible genotypes of the gametes.

Diploid genotype	Gamete genotype
FF	<u>F</u>
ff	<u>f</u>
Ff	<u>F</u> & <u>f</u>

2. During fertilization, two gamete nuclei fuse, and the diploid condition is restored. Give the diploid genotype produced by fusion of the following gamete genotypes.

Gamete genotype X Gamete genotype	→	Diploid genotype
<u>f</u>	<u>f</u>	<u>ff</u>
<u>F</u>	<u>f</u>	<u>Ff</u>
<u>F</u>	<u>F</u>	<u>FF</u>

3. Free (F) and attached (f) earlobes
- Suppose a man has the genotype FF. What is the genotype of his gamete (sperm) nuclei? F
 - Suppose a woman has attached earlobes. What is her genotype? ff
 - What allele(s) does her gametes (ova) carry? f
 - These two individuals produce a child. Show the genotype of the child by doing the cross: FF
 Sperm genotype F x Ovum Genotype f
 Child Genotype Ff 100%
 - What is the phenotype of the child? (That is, does this child have attached or free earlobes?)
4. In garden peas, purple flowers are dominant over white flowers. Let *R* represent the allele for purple flowers, *r* the allele for white flowers.
- What is the phenotype (color) of the flowers with the following genotypes:

Diploid genotype	Gamete genotype
<i>RR</i>	<u>R</u>
<i>rr</i>	<u>r</u>
<i>Rr</i>	<u>R</u> & <u>r</u>

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Table of Contents Human Biology Lab 53 Genetics Manual Answers

1. Understanding the eBook Human Biology Lab 53 Genetics Manual Answers
 - The Rise of Digital Reading Human Biology Lab 53 Genetics Manual Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Biology Lab 53 Genetics Manual 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 Human Biology Lab 53 Genetics Manual Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Biology Lab 53 Genetics Manual Answers
 - Personalized Recommendations
 - Human Biology Lab 53 Genetics Manual Answers User Reviews and Ratings
 - Human Biology Lab 53 Genetics Manual Answers and Bestseller Lists

5. Accessing Human Biology Lab 53 Genetics Manual Answers Free and Paid eBooks
 - Human Biology Lab 53 Genetics Manual Answers Public Domain eBooks
 - Human Biology Lab 53 Genetics Manual Answers eBook Subscription Services
 - Human Biology Lab 53 Genetics Manual Answers Budget-Friendly Options
6. Navigating Human Biology Lab 53 Genetics Manual Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Human Biology Lab 53 Genetics Manual Answers Compatibility with Devices
 - Human Biology Lab 53 Genetics Manual Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Biology Lab 53 Genetics Manual Answers
 - Highlighting and Note-Taking Human Biology Lab 53 Genetics Manual Answers
 - Interactive Elements Human Biology Lab 53 Genetics Manual Answers
8. Staying Engaged with Human Biology Lab 53 Genetics Manual Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Biology Lab 53 Genetics Manual Answers
9. Balancing eBooks and Physical Books Human Biology Lab 53 Genetics Manual Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Biology Lab 53 Genetics Manual Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Human Biology Lab 53 Genetics Manual Answers
 - Setting Reading Goals Human Biology Lab 53 Genetics Manual Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Human Biology Lab 53 Genetics Manual Answers
 - Fact-Checking eBook Content of Human Biology Lab 53 Genetics Manual 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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