

## Evolution of Populations

## Modeling a Gene Pool

### Introduction

A population is a group of organisms of the same species that live together in a particular location. Each population is normally isolated from other populations of the same species. Populations can be observed for many characteristics.

Population genetics is the study of genes in a population of organisms. Biologists who study population genetics are interested in how frequently alleles of a gene appear in a population. Biologists are also interested in any changes in gene frequencies that may be occurring.

In this investigation beans will be used to represent individuals in a simulated population of organisms. Red beans will be symbols for homozygous dominant individuals  $RR$ . Pink (pinto) beans will be symbols for heterozygous individuals  $Rr$ . White beans will be symbols for homozygous recessive individuals  $rr$ . You will study various crosses using the beans and analyze frequencies and frequency changes as they appear in a simulated population in which a harmful phenotype occurs. In addition to this, you will be able to see how a potentially lethal genetic disorder affects allele frequency in the population over generations.

### Problem

How does gene frequency change in a population of organisms?

### Pre-Lab Discussion

Read the entire investigation. Then work with a partner to answer the following questions.

1. Why are you asked to set aside and not use some of the white beans at the start of the experiment?

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2. If the initial breeding population (the parent generation) is composed of 16  $RR$  individuals, 32  $Rr$  individuals, and 8  $rr$  individuals, how many  $R$  alleles are present in the parent generation? How many  $r$  alleles are present in the parent generation?

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3. For the individuals in this lab, can the genotype of each be determined from the phenotype? Explain your answer.

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# Modeling A Gene Pool Lab Answers

**Shasha Hu**



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## **Table of Contents Modeling A Gene Pool Lab Answers**

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

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