

## 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

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## Modeling A Gene Pool Lab Answers:

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*Water Quality Models Used by the Corps of Engineers* ,1987

**Biological Science** Biological Sciences Curriculum Study,1996

**Research in Computational Molecular Biology** Jian Ma,2024-05-16 This book constitutes the proceedings of the 28th Annual International Conference on Research in Computational Molecular Biology RECOMB 2024 held in Cambridge MA USA during April 29 May 2 2024 The 57 full papers included in this book were carefully reviewed and selected from 352 submissions They were organized in topical sections as follows theoretical and foundational algorithm contributions and more applied directions that engage with new technologies and intriguing biological questions

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*I Am Life* Jay Marvin Templin,HarperCollins Publishers,1991

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Nature Sir Norman Lockyer,2004

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exercise 2 using partial fractions we may express the integrand as  $\frac{1}{i}$

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web 4 find the conditions under which the equation  $az + bz^2 = c$  in one complex unknown has exactly one solution and compute that solution let  $z = x + iy$  then  $az + bz^2 = c \iff a(x + iy) + b(x + iy)^2 = c \iff (a + 2bx - by^2) + i(a + 2bx - by^2) = c \iff \begin{cases} a + 2bx - by^2 = \operatorname{Re}(c) \\ a + 2bx - by^2 = \operatorname{Im}(c) \end{cases}$  let's consider equation  $1 - 6b$  we either have that  $a = 0$  or  $y = 0$  if  $a = 0$  then wlog equation  $1 - 6a$  can be written as

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