

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.

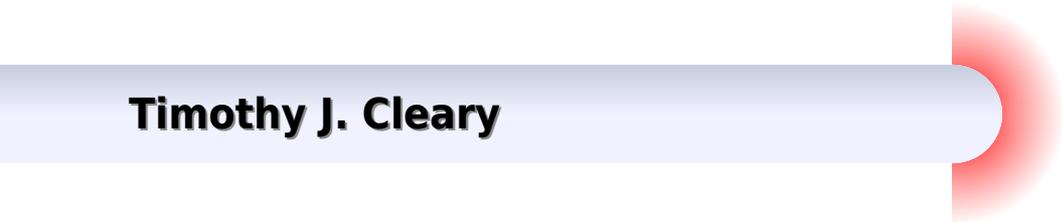
1. Why are you asked to set aside and not use some of the white beans at the start of the experiment?

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?

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

Modeling A Gene Pool Lab Answers

Timothy J. Cleary



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biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

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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Nature Sir Norman Lockyer,2004

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