

BIOL 112 Lab 01: Population Genetics – Lab Activity 3

Lab Activity 3: Natural Selection Simulation

Table 4.

Habitat	Mutation (Y/N)	Predation (Y/N)	Time (months)	Fur Color Frequency	Genotype Frequency	Allele Frequency
Beach	No	No	120 months	Light: 38% Medium: 44% Dark: 18%	RLRL: 38% RLRD: 9% RDRL: 36% RDRD: 18%	RL: 60% RD: 40%
RESET						
Beach	No	Yes	120 months	Light: 100% Medium: 0% Dark: 0%	RLRL: 100% RLRD: 0% RDRL: 0% RDRD: 0%	RL: 100% RD: 0%
RESET						
Beach	Yes	No	120 months	Light: 29% Medium: 60% Dark: 11%	RLRL: 29% RLRD: 44% RDRL: 16% RDRD: 11%	RL: 59% RD: 41%
Field	Yes	No	400 months	Light: 50% Medium: 44% Dark: 6%	RLRL: 50% RLRD: 15% RDRL: 29% RDRD: 6%	RL: 72% RD: 28%

Lab Activity 3 Questions:

1. Examine your data. Comparing your first two populations, with and without predation, how did predation influence the population?

Predation caused the second population to be extremely different from the first. As a result of this predation, the fur color frequency to be 100% for the light brown fur, the RLRL genotype frequency to be 100%, and the RL allele frequency to be 100%. This means that because of predation, the RL phenotype/genotype/allele became the homozygous dominant gene.

2. Based on your observations, did mutation affect the population over time? How?

Mutations caused another shift in the third population, as it restored some percentage to the medium and dark fur colors, RLRL, RDRL, and RDRD genotype frequencies, and RD allele frequency. In the third population, it seem to have a greater effect on the heterozygous genotypic frequency, as it ended up with 44% compared to the RLRLs 29%. So, while predation had the greatest effect on the homozygous dominant (LL) gene, mutation seemed to have the greatest effect on the heterozygous (LD) gene.

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Table of Contents Population Genetics Lab Answers Kim Foglia

1. Understanding the eBook Population Genetics Lab Answers Kim Foglia
 - The Rise of Digital Reading Population Genetics Lab Answers Kim Foglia
 - Advantages of eBooks Over Traditional Books
2. Identifying Population Genetics Lab Answers Kim Foglia
 - 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 Population Genetics Lab Answers Kim Foglia
 - User-Friendly Interface

4. Exploring eBook Recommendations from Population Genetics Lab Answers Kim Foglia
 - Personalized Recommendations
 - Population Genetics Lab Answers Kim Foglia User Reviews and Ratings
 - Population Genetics Lab Answers Kim Foglia and Bestseller Lists
5. Accessing Population Genetics Lab Answers Kim Foglia Free and Paid eBooks
 - Population Genetics Lab Answers Kim Foglia Public Domain eBooks
 - Population Genetics Lab Answers Kim Foglia eBook Subscription Services
 - Population Genetics Lab Answers Kim Foglia Budget-Friendly Options
6. Navigating Population Genetics Lab Answers Kim Foglia eBook Formats
 - ePub, PDF, MOBI, and More
 - Population Genetics Lab Answers Kim Foglia Compatibility with Devices
 - Population Genetics Lab Answers Kim Foglia Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Population Genetics Lab Answers Kim Foglia
 - Highlighting and Note-Taking Population Genetics Lab Answers Kim Foglia
 - Interactive Elements Population Genetics Lab Answers Kim Foglia
8. Staying Engaged with Population Genetics Lab Answers Kim Foglia
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Population Genetics Lab Answers Kim Foglia
9. Balancing eBooks and Physical Books Population Genetics Lab Answers Kim Foglia
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Population Genetics Lab Answers Kim Foglia
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Population Genetics Lab Answers Kim Foglia
 - Setting Reading Goals Population Genetics Lab Answers Kim Foglia
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Population Genetics Lab Answers Kim Foglia
 - Fact-Checking eBook Content of Population Genetics Lab Answers Kim Foglia
 - 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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