

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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Enjoying the Song of Term: An Mental Symphony within **Population Genetics Lab Answers Kim Foglia**

In some sort of used by displays and the ceaseless chatter of immediate interaction, the melodic elegance and mental symphony created by the published term usually disappear into the backdrop, eclipsed by the relentless noise and distractions that permeate our lives. However, located within the pages of **Population Genetics Lab Answers Kim Foglia** a charming fictional value overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that fascinating masterpiece conducts readers on an emotional journey, well unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths of the moving review, we will explore the book is main harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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