

Evolution: Mutation and Selection

Answer Key

Vocabulary: adaptation, allele, chromosome, evolution, fitness, gene, genotype, mutation, natural selection, phenotype, trait

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. Imagine a white lizard and a brown lizard sitting on a brown rock. A hawk is circling overhead hunting for its next meal. Which lizard do you think the hawk would most likely try to catch? Explain your choice.

Answers will vary. [The hawk will most likely try to catch the white lizard because it is not as well camouflaged as the brown lizard.]

2. Now imagine that the same two lizards were sitting on a dune of white sand. Which lizard do you think the hawk would then most likely try to catch? Why?

Answers will vary. [The hawk will most likely try to catch the brown lizard in this case because it is not as well camouflaged as the white lizard.]

Gizmo Warm-up

How long could a parrot survive in Antarctica? It would probably not survive long. Parrots do not have **adaptations**—or helpful characteristics—to survive icy cold weather. Because of this, a parrot is not fit for Antarctica. **Fitness** describes how well an organism can survive and reproduce in an environment.

In the *Evolution: Mutation and Selection* Gizmo™, you will see how a species' fitness can change over time as it becomes better adapted to its environment.



1. On the SIMULATION pane, what is the **Average fitness** of the population? **50%**
2. On the CONTROLS pane, experiment with the **Background color** sliders.
 - A. Which background color results in the highest fitness? **$R = 255$, $G = 255$, $B = 255$**
 - B. Which background color results in the lowest fitness? **$R = 0$, $G = 0$, $B = 0$**

Mutation And Selection Gizmo Answers

Wei Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Disentangling Mutation and Selection in Human Genetic Variation Ipsita Agarwal, 2021 Through the two specific cases described this work illustrates the potential of large contemporary repositories of human genetic variation to inform human genetics and evolution as well as their limitations in the absence of suitable models of mutation selection and other aspects of the evolutionary process

Evolving Ourselves Juan Enriquez, Steve Gullans, 2015 Though these harbingers of change are deeply unsettling the authors argue that we are also in an epoch of tremendous opportunity New advances in biotechnology help us mitigate the cruel forces of natural selection from saving prematurely born babies to gene therapies for sickle cell anemia and other conditions As technology enables us to take control of our genes we will be able to alter our own species and many others a good thing given that our eventual survival will require space travel and colonization enabled by a fundamental redesign of our bodies Future humans could become great caretakers of the planet as well as a more diverse more resilient gentler and more intelligent species but only if we make the right choices now

Mutation and Selection Noa Warren, 2005

Mutation and Selection as Inferred by the Comparison of the Human and the Chimpanzee Genomes Ines Hellmann, 2005

Natural Selection Mario A. Fares, 2014-11-21 This book summarizes the knowledge in the field of methods to identify signatures of natural selection A number of mathematical models and methods have been designed to identify the fingerprints of natural selection on genes and genomes Such methods are provided in a simple and direct way so that students of different disciplines can navigate through molecular fitness landscapes using complex methods with a basic knowledge on bioinformatics A collection of the main methods to detect selection in protein coding genes and amino acid sequences is given at different levels of complexity from nucleotides to proteins and molecular networks The importance of identifying natural selection in genes and genomes through the methods described in this book transcends the bioinformatics and computational biology fields presenting applications for experimental biologists in a straightforward and understandable way

Explicit Estimation of Both Mutation and Selection Bias for the Purpose of Understanding Protein Function and Evolution Wei Zhang, 2004

The Mutation Theory: The origin of species by mutation Hugo de Vries, 1910

Species and Varieties Hugo de Vries, 1904

Mutation and Selection as Inferred by the Comparison of the Human and the Chimpanzee Genomes Ines Hellmann, 2005

Introduction to Natural Selection Clifford Johnson, 1976

Genetic systems and fitness Evidence for selection The balanced polymorphism or the non neutral equilibria Selection coefficients in natural populations Varying fitness and the unit of selection Quantitative traits and the selection effect Selection in retrospect and prospect

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