

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Microevolution

**Vocabulary:** allele, cystic fibrosis, deleterious, dominant allele, fitness, genotype, heterozygote, superiority, heterozygous, homozygous, incompletely dominant, malaria, predator, recessive allele, sickle cell anemia

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

Many people from warm regions carry an **allele** that provides resistance to **malaria**. Two copies of this allele, however, causes a deadly blood disorder called **sickle cell anemia**.

1. Suppose two parents are healthy carriers of the sickle-cell allele. The **genotype** of each parent is AS (A is the normal allele, and S is the sickle-cell allele).

How likely is it for a child of these parents to have sickle cell anemia (SS)? **50%**

2. Do you think the allele for sickle cell anemia would be common in regions where malaria did not exist? Explain why or why not. **No, the allele for sickle cell anemia would not be common as the region would not be exposed to malaria, thus would not need a resistance towards it.**

### Gizmo Warm-up

If natural selection does not favor one trait over another, the frequencies of various alleles in a population will tend to be stable over long periods of time. But what happens when one allele confers an advantage or disadvantage to an individual? These scenarios and others can be explored with the *Microevolution* Gizmo.



1. The feather color of the parrots in the Gizmo is controlled by two alleles, *D* and *d*. The *D* allele is **incompletely dominant** over *d*. What is the feather color of each parrot genotype?

***DD* Dark green**

***Dd* Light green**

***dd* yellow**

2. The **fitness** of parrots is determined by how well they blend into the background trees. Set the **Fitness of *DD*** slider to 100% and the other fitness sliders to 60%.

The birds with which genotype blend into the background now? ***DD***

3. Click **Begin**, and then click **Predator**. Which parrots were killed by **predators**? ***Dd* and *dd***

# Microevolution Answer Key

**Jaan Ranne**



## **Microevolution Answer Key:**

*Microevolution Rate, Pattern, Process* Andrew P. Hendry, Michael T. Kinnison, 2012-12-06 From guppies to Galapagos finches and from adaptive landscapes to haldanes this compilation of contributed works provides reviews perspectives theoretical models statistical developments and empirical demonstrations exploring the tempo and mode of microevolution on contemporary to geological time scales New developments and reviews of classic and novel empirical systems demonstrate the strength and diversity of evolutionary processes producing biodiversity within species Perspectives and theoretical insights expand these empirical observations to explore patterns and mechanisms of microevolution methods for its quantification and implications for the evolution of biodiversity on other scales This diverse assemblage of manuscripts is aimed at professionals graduate students and advanced undergraduates who desire a timely synthesis of current knowledge an illustration of exciting new directions and a springboard for future investigations in the study of microevolution in the wild

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Ranne,2018-08-21 Is there any scientific merit to the creationist point of view This book looks at that question in detail and studies the flaws of evolutionary thinking and even the lack of true science in the evolution model The creation model can be backed up scientifically The book looks at topics like dinosaurs coexisting with man the flood the age of the Earth and the intelligence of early man *Cosmic Chemistry* John C Lennox,2021-09-17 In this accessible and engaging introduction John Lennox guides us through the great debates about science and faith and offers incisive assessments of the issues Alister McGrath Professor of Science and Religion University of Oxford Is the rigorous pursuit of scientific knowledge really compatible with a sincere faith in God Building on the arguments put forward in God's Undertaker Has Science Buried God Prof John Lennox examines afresh the plausibility of a Christian theistic worldview in the light of some of the latest developments in scientific understanding Prof Lennox focuses on the areas of evolutionary theory the origins of life and the universe and the concepts of mind and consciousness to provide a detailed and compelling introduction to the science and religion debate He also offers his own reasoning as to why he continues to be convinced by a Christian approach to explaining these phenomena Robust in its reasoning but respectful in tone this book is vital reading for anyone exploring the relationship between science and God **Progress and Prospects in Evolutionary Biology** Jeffrey R. Powell,1997 The common fruitfly *Drosophila* is the most extensively studied of all organisms in genetical research Thus it would appear to be the best model for achieving new insights Its use in evolutionary studies has resulted in an explosion of knowledge which has never before been gathered into a single volume This book spans the full range of evolutionary studies population genetics

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