



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

**Gerarld L. Kellogg**

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

### **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

**Plant Microevolution and Conservation in Human-influenced Ecosystems** David Briggs, 2009-11-26 As human activities are increasingly domesticating the Earth's ecosystems new selection pressures are acting to produce winners and losers amongst our wildlife With particular emphasis on plants Briggs examines the implications of human influences on micro evolutionary processes in different groups of organisms including wild weedy invasive feral and endangered species Using case studies from around the world he argues that Darwinian evolution is ongoing He considers how far it is possible to conserve endangered species and threatened ecosystems through management and questions the extent to which damaged landscapes and their plant and animal communities can be precisely recreated or restored Many of Darwin's ideas are highlighted including his insights into natural selection speciation the vulnerability of rare organisms the impact of invasive species and the effects of climate change on organisms An important text for students and researchers of evolution conservation climate change and sustainable use of resources

*Debating Cancer: The Paradox In Cancer Research* Henry H Q Heng, 2015-10-08 Cancer research is at a crossroads Traditionally cancer has been thought of as a disease of gene mutation where the stepwise accumulation of cancer gene mutations is the key and the identification of common gene mutations has been considered to be essential for diagnosis and treatment Despite extensive research efforts and accumulated knowledge on cancer genes and pathways the clinical benefits of this traditional approach have been limited Recently cancer genome sequencing has revealed an extensive amount of genetic heterogeneity where the long expected common mutation drivers have been difficult if not impossible to identify These realities ultimately challenge the conceptual framework of current cancer biology This book introduces a new concept of genome theory of cancer evolution in an attempt to unify the field Many important and representative but often confusing questions and paradoxes are critically analyzed By comparing gene and genome based theories the hidden flaws of many popular viewpoints are addressed This discussion is intended to initiate a much needed critical re evaluation of current cancer research

Student Study Guide for Biology [by]

Campbell/Reece/Mitchell Martha R. Taylor,1999      *Questions and Answers on Creation/evolution* John N. Moore,1976  
*Telecourse Cycles of Life* Gerald L. Kellogg, Starr,1999-07 This guide provides students with a road map through the telecourse and contains assignments for reading viewing and doing related activities plus overviews of the content of each lesson and the accompanying video program For information about bundling it with any Starr textbook contact your Cengage Learning representative      **Student Guide for Cycles of Life** Gerald L. Kellogg,2006      **Introduction to Genetics: A Molecular Approach** T A Brown,2012-03-22 Introduction to Genetics A Molecular Approach is a new textbook for first and second year undergraduates It first presents molecular structures and mechanisms before introducing the more challenging concepts and terminology associated with transmission genetics      **Holt Biology** Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008      *Biology!* John H. Postlethwait,Janet L. Hopson,John N. Postlethwait,Ruth C. Veres,1991      *Tb Anthropology 11e* Haviland,Prins,Walrath,2004-05      *Endocytobiosis and Cell Research* ,1998  
**Genetics** Robert J. Brooker,Brooker Robert,2004-06 Contains solutions to the end of chapter problems and questions to aid the students in developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises      *Foundations of Forest Ecosystems* Egolf Voldemars Bakuzis,1976      *The Evolutionary Process* Verne Grant,1985 Providing a clear and thorough review of the active field of organic evolution the author describes the processes that bring about evolutionary change and the factors that affect these processes He covers a broad range of subjects placing classical and recent research in perspective and clarifying current controversies      **Biology** Cecie Starr,John D. Jackson,Roger Taylor,1991      *European Journal of Cell Biology* ,1999      **Women in parasite and host 2021** Tania F. De Koning-Ward ,Maria Carolina Touz,Shailja Singh,2023-04-14      *American Scientist* ,1998      *Proceedings* ,2009

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