

17.2 Evolution as Genetic Change in Populations

THINK ABOUT IT Ever since humans began farming, they have battled insects that eat crops. Many farmers now use chemicals called pesticides to kill crop-destroying insects. When farmers first used modern pesticides such as DDT, the chemicals killed most insects. But after a few years, many pesticides stopped working. Today, farmers fight an ongoing “arms race” with insects. Scientists constantly search for new chemicals to control pests that old chemicals no longer control. How do insects fight back? By evolving.

At first, individual pesticides kill almost all insects exposed to them. But a few individual insects usually survive. Why? Because insect populations often contain enough genetic variation that a few individuals, just by chance, are resistant to a particular pesticide. By killing most of the susceptible individuals, farmers increase the relative fitness of the few individuals that can resist the poison. Those insects survive and reproduce, passing their resistance on to their offspring. After a few generations, the descendants of the original, resistant individuals dominate the population.

To understand completely how pesticide resistance develops, you need to know the relationship between natural selection and genetics.



How Natural Selection Works

How does natural selection affect single-gene and polygenic traits?

Pesticide-resistant insects have a kind of fitness that protects them from a harmful chemical. In genetic terms, what does fitness mean? Each time an organism reproduces, it passes copies of its genes on to its offspring. We can, therefore, view evolutionary fitness as success in passing genes to the next generation. In the same way, we can view an evolutionary adaptation as any genetically controlled trait that increases an individual's ability to pass along its alleles.

Key Questions

How does natural selection affect single-gene and polygenic traits?

What is genetic drift?

What conditions are required to maintain genetic equilibrium?

Vocabulary

directional selection
stabilizing selection
disruptive selection
genetic drift
bottleneck effect
founder effect
genetic equilibrium
Hardy-Weinberg principle
sexual selection

Talking Notes

Preview Visuals Before you read, look at Figure 17-6. What evolutionary trend does it seem to show?

Getting Started

Objectives

17.2.1 Explain how natural selection affects single-gene and polygenic traits.

17.2.2 Describe genetic drift.

17.2.3 Explain how different factors affect genetic equilibrium.

Student Resources

Study Workbooks A and B, 17.2 Worksheets

Spanish Study Workbook, 17.2 Worksheets

Lab Manual B, 17.2 Data Analysis Worksheet, Hands-On Activity Worksheet

Student Resources Lesson Overview • Lesson Notes • Activity: Art in Motion • Assessment: Self-Test, Lesson Assessment

For corresponding lesson in the **Foundation Edition**, see pages 409–413.

Activate Prior Knowledge

Based on what they learned in Chapter 16 about Darwin's theory of evolution, have several students in turn state a fact about, or give an example of, natural selection.

Ask: If Darwin had known what you know about genes, how do you think he would have defined fitness? (Sample answers: possession of genes that enhance survivability; ability of an individual to pass copies of its genes to its offspring)



NATIONAL SCIENCE EDUCATION STANDARDS

UNIFYING CONCEPTS AND PROCESSES

1, 2, 3, 4

CONTENT

C.2.c, C.3.a, C.3.b, C.3.c

INQUIRY

A.1.b, A.1.c, A.2.a, A.2.d

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U2D Teach for Understanding

ENDURING UNDERSTANDING The diversity of life is the result of ongoing evolutionary change. Species alive today have evolved from ancient common ancestors.

GUIDING QUESTION What causes a population's gene pool to change?

EVIDENCE OF UNDERSTANDING After the lesson, give students the following assessment to determine whether they understand the role of chance events in the evolution of small populations. Have pairs of students use coin tosses to simulate the effects of chance on the allele frequencies in a population of 10 individuals. In the first generation, there are 10 “heads” alleles and 10 “tails” alleles. Students should assume that there are 10 individuals in the next generation. Students should toss the coin twice for each individual in the next generation and record the outcomes of the tosses. After pairs compare their new allele frequencies, have each student write a brief explanation of whether genetic drift has occurred.

Biology Populations Vocabulary Review Answers

Patrick Vollmar



Biology Populations Vocabulary Review Answers:

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Miller, 1991 **Resources in Education** , 2000 **The Software Encyclopedia 2000** Bowker Editorial Staff, 2000-05

Biology Vernon L. Avila, 1995 This exciting edition of Avila s popular biology textbook offers current accurate clearly written and well organized information including seven new chapters Written for introductory biology courses this text represents the philosophy that an understanding of the principles of biology from a cellular perspective is key to a biological literacy and a full appreciation of the many intricacies of life *Biology a Guide to the Natural World* David Krogh, Laurel Robeerts, 2002 **Biology Today** Eli C. Minkoff, Pamela J. Baker, 2001 Biology as a subject not only plays a major role within the scientific world but has broader implications that cross many boundaries This work takes a modern and innovative approach to teaching introductory biology it presents fundamental biological concepts within the context of current social issues How do scientists affect our society at large How are ethics and morals applied to the scientific world Why are we racing to complete the human genome project and who are we racing against How do economic disparities between people and nations influence habitat destruction Can plant science feed the world Are the causes of cancer more genetic or environmental The book seeks to help students think critically about these questions and to explore and assess the role that science plays in their world *Annual Review of Anthropology* Bernard J. Siegel, 1986 Annual compilation of critical articles from all areas of the discipline of anthropology **Living in a Microbial World** Bruce Hofkin, 2020-11-26 As with the first edition this second edition of *Living in a Microbial World* is written for students taking a general microbiology course or a microbiology based course for non science majors The conversational style and use of practical everyday examples make the essential concepts of microbiology accessible to a wide audience While using this approach the text maintains scientific rigor with clear explanations spanning the breadth of microbiology including health evolution ecology food production biotechnology and industrial processes Each chapter contains a series of case studies based on microbiology in the news in history and in literature There are questions at the end of each case study and the end of each chapter as well as an online quiz with help on answering the questions The text questions and cases have been updated to reflect the changing influence of microbiology in the world today from the microbiome to new disease outbreaks Ebola and Zika and antibiotic resistance to new biotechnology tools CRISPR Cas *Modern Biology* Towle, Albert Towle, 1991 *Princeton Review AP Environmental*

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McMahon, Brian L. Finlayson, Christopher J. Gippel, Rory J. Nathan, 2013-05-03 Since the publication of the first edition 1994 there have been rapid developments in the application of hydrology geomorphology and ecology to stream management In particular growth has occurred in the areas of stream rehabilitation and the evaluation of environmental flow needs The concept of stream health has been adopted as a way of assessing stream resources and setting management goals *Stream Hydrology An Introduction for Ecologists* Second Edition documents recent research and practice in these areas Chapters provide information on sampling field techniques stream analysis the hydrodynamics of moving water channel form sediment transport and commonly used statistical methods such as flow duration and flood frequency analysis Methods are presented from engineering hydrology fluvial geomorphology and hydraulics with examples of their biological implications This book demonstrates how these fields are linked and utilised in modern scientific river management Emphasis on applications from collecting and analysing field measurements to using data and tools in stream management Updated to include new sections on environmental flows rehabilitation measuring stream health and stream classification Critical reviews of the successes and failures of implementation Revised and updated windows based AQUAPAK software This book is essential reading for 2nd 3rd year undergraduates and postgraduates of hydrology stream ecology and fisheries science in Departments of Physical Geography Biology Environmental Science Landscape Ecology Environmental Engineering and Limnology It would be valuable reading for professionals working in stream ecology fisheries science and habitat management environmental consultants and engineers

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