

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.

Chapter5 Populations Review

SA Adler



Chapter5 Populations Review:

Population Review ,1995 *Teaching Diversity in Rural Schools* Lisa A. Hazlett,2022-12-19 *Teaching Diversity in Rural Schools Attaining Understanding Tolerance and Respect Through Young Adult Literature* aims to assist secondary English Language Arts rural educators and students regarding diversity education through the use of rural small town themed young adult literature While appropriate for any rural educator the Upper Midwestern states IA MN MT NE ND SD and WY are focused on because they are unique in their predominantly White residents with few to no racial and cultural minorities in all locations large or small Teaching rural students about minorities and facilitating in developing understanding tolerance and respect toward those different from oneself is difficult when absent from communities and schools However this book helps in reaching these goals through the use of titles that consider specific topics of cultural and racial minorities such as those who are LGBTQ undocumented homeless having exceptionalities managing grief loss and more Also addressed are rural communities and schools the purpose and importance of young adult literature and locating quality rural small town themed novels Suggestions for using this literature activities discussion topics and recommended titles are also provided **The American Economic Review** ,1920 Includes annual List of doctoral dissertations in political economy in progress in American universities and colleges and the Hand book of the American Economic Association *Cognitive Behavioral Therapy in a Global Context* Mark D. Terjesen,Kristene A. Doyle,2022-10-25 This book presents a new approach to understanding the history and practice of cognitive behavior therapy by presenting country profiles in 38 countries located around the world The objectives of this edited volume are to provide a broad understanding of the practice of CBT internationally as well as country specific practices that will provide researchers and practitioners with important information for consideration in the application of CBT The book begins with an introductory chapter by the editors that discusses the history of CBT and the efforts to globalize and disseminate the science and practice of CBT as well as the unique cultural and international variables The subsequent chapters offer detailed country profiles of the history and practice of CBT from around the globe More specifically chapters will provide an overview of the country a history of psychotherapy in the country current regulations regarding psychotherapy provision professional and cognitive behavior therapy organizations training opportunities programs in CBT populations most frequently worked with using CBT in the country the use and adaptation of CBT the research on CBT in the country and CBT with special populations children immigrants HIV etc Many of the nations represented are the most populous and influential ones in their respective regions where CBT has been incorporated into psychotherapy training and practice Taken as a whole the countries are quite diverse in terms of sociocultural economic and political conditions and the impact of these variables on the practice of CBT in the country will be discussed The final chapter of the volume offers a summary of the patterns of practice integrating the main findings and challenges and discussing them within a global context A discussion of the vision for next steps in the globalization of CBT

concludes the book Polish Population Review ,1995 **The Chautauquan** Theodore L. Flood, Frank Chapin Bray, 1909

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