

# 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

### Biologist

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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.

# Populations Vocabulary Review Biology

**Joacim Rocklöv**



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Holt Biology Holt Rinehart & Winston, 2003-08     *Holt Biology Chapter Resource File 15* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004     **AGS Biology** , 2000     **Chapter Resource 13 Theory/Evolution Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004     **Globe Biology** Globe Fearon, 1999     **Marine Fisheries Review** , 1988     *Biology a Guide to the Natural World* David Krogh, Laurel Robeerts, 2002     The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05     **Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02  
Forum , 1982     **Leaders in the Study of Animal Behavior** Donald A. Dewsbury, 1985 This is a collection of autobiographical essays written by nearly two dozen scientists in the field of animal behavior Each chapter is devoted to one individual and includes details regarding family life and early experiences with an emphasis on the individual's career as a scientist     *Human Natures* Paul R. Ehrlich, 2001-12-31 Why do we behave the way we do Biologist Paul Ehrlich suggests that although people share a common genetic code these genes do not shout commands at us at the very most they whisper suggestions He argues that human nature is not so much result of genetic coding rather it is heavily influenced by cultural conditioning and environmental factors With personal anecdotes a well written narrative and clear examples *Human Natures* is a major work of synthesis and scholarship as well as a valuable primer on genetics and evolution that makes complex scientific concepts accessible to lay readers     **Resources in Education** , 1998     **Biology Trending** Eli Minkoff, Jennifer K. Hood-DeGrenier, 2023-07-24 *Biology Trending* is a truly innovative introductory biology text Designed to combine the teaching of biological concepts within the context of current societal issues *Biology Trending* encourages introductory biology students to think critically about the role that science plays in their world This book features many current and relevant topics including sea level changes and ocean acidification CRISPR Cas9 opioid abuse Zika Ebola and COVID 19 threats to biodiversity and cancer immunotherapies It is accompanied by digital Instructor and Student Resources to support teaching and learning Key Features Adopts an issues approach to teaching introductory biology Up to date sections throughout including climate change CRISPR new hominids COVID 19 and new cancer therapies among many others Suitable for both major and nonmajor courses More succinct for ease in teaching and more affordable for students High quality illustrations help to elucidate key concepts This book is extended and enhanced through a range of digital resources that include Long form and open response self testing resources to test understanding and apply knowledge Visual simulations to demonstrate evolutionary processes Web links and bibliographic resources to expand knowledge Time saving instructor resources such as PowerPoint slides activity and assignment ideas and comprehensive lesson plans Related Titles Bard J *Evolution The Origins and Mechanisms of Diversity* ISBN 9780367357016 Prothero D *Vertebrate Evolution From Origins to Dinosaurs and Beyond* ISBN 9780367473167 Johnson N A *Darwin's Reach 21st Century Applications of Evolutionary Biology* ISBN 9781138587397     **Connecting People to Their Oceans: Issues and Options for Effective**

**Ocean Literacy** Angel Borja, Francesca Santoro, Gail Scowcroft, Stephen Fletcher, Pierre Strosser, 2020-03-25 While there is growing evidence of the importance of marine ecosystems for our societies evidence shows also that pressures from human activities on these ecosystems are increasing putting the health of marine ecosystems at stake worldwide Hence Blue Economy is becoming an important component of future socio economic development strategies e g this is called Blue Growth in Europe that eventually can result in increasing pressures at sea and despite the current regulatory framework in particular with the Oceans Act in USA or Canada and the Marine Strategy Framework Directive in Europe it is likely that this situation will continue in the future Ensuring all those connected to the sea directly or indirectly gain a better understanding of the importance of the seas the human sea interactions and opportunities to act better and reduce impacts from human pressures is central to Ocean Literacy OL Receiving increasing attention in Europe and USA OL is a challenge for all parts of society educators 2 the role OL could play in interaction with innovation regulation economic incentive social norms to support human capital development as key component of sustainable growth and 3 pre conditions for effective OL for different sectors and target groups Questions relevant to OL include Which knowledge produced by whom to share and how Who to target and how to effectively reach those targeted How to design OL initiatives including by mobilizing those targeted via living lab approaches e g to ensure effective OL and pave the way for behavior change What are the knowledge gaps that limit our capacity to design effective OL As scientists it is likely you have many more questions to offer and discuss

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**Social and Communicative Functioning in Populations with Intellectual Disability: Rethinking Measurement**, 2023-10-12 Social and Communicative Functioning in Populations with Intellectual Disability A Developmental Perspective Volume 65 in the International Review of Research in Developmental Disabilities series focuses on social and communicative functioning with a particular emphasis on people with intellectual disability The volume brings together international researchers across disciplines to highlight innovative approaches to holistically describe social and communicative abilities in this population including teleassessment self report and community engaged research designs Through a lifespan approach key issues are raised related to social and communicative functioning across a range of communication modalities from infancy through adulthood Additional chapters cover Adaptation of in person tools for remote assessment of infants and toddlers with social communication concerns in community based settings Measuring social communication in people with ID who use minimal speech Differences across the lifespan and Social Inclusion of Adults with

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