

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 Chapter 5 Populations Workbook Answers

Padhraic Smyth

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

Biology Chapter 5 Populations Workbook Answers:

Biology Glencoe/McGraw-Hill, 1994-07 *Mathematical Models in Population Biology and Epidemiology* Fred Brauer, Carlos Castillo-Chavez, 2001-03-30 The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions on population biology Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which will include both examples and exercises is of use to practitioners graduate students and scientists working in the field *Demographic Methods Across the Tree of Life* Roberto Salguero-Gómez, Marlène Gamelon, 2021 This novel book provides the reader with the fundamentals of data collection model construction analyses and interpretation across a wide repertoire of demographic techniques and protocols clearly guided throughout with fully reproducible R scripts Technology Leadership in Teacher Education: Integrated Solutions and Experiences Yamamoto, Junko, Leight, Joanne, Winterton, Sally, Penny, Christian, 2010-06-30 This book presents international authors who are teacher educators and their best practices in their environments discussing topics such as the online learning environment multimedia learning tools inter institutional collaboration assessment and accreditation and the effective use of Web 2.0 in classrooms Provided by publisher **Foundations for Population Health in Community/Public Health Nursing - E-Book** Marcia Stanhope, Jeanette Lancaster, 2021-10-08 Master the essentials of health promotion in community and public health nursing Foundations for Population Health in Community Public Health Nursing 6th Edition provides clear concise coverage of the nurse's role in preventing disease promoting health and providing health education in community settings Case studies and critical thinking activities make it easier to apply concepts to community nursing practice New to this edition are Healthy People 2030 guidelines and coverage of the latest issues trends and approaches Written by well known nursing educators Marcia Stanhope and Jeanette Lancaster this streamlined text covers the fundamentals of designing effective nursing strategies for vulnerable and special populations Focus on health promotion throughout the text emphasizes initiatives strategies and interventions that promote the health of the community QSEN boxes illustrate how quality and safety goals competencies objectives knowledge skills and attitudes can be applied in nursing practice in the community Levels of Prevention boxes identify specific nursing interventions at the primary secondary and tertiary levels reinforcing the concept of prevention as it relates to community and public health care Applying Content to Practice boxes highlight how chapter content is applied to nursing practice in the community Practice Application scenarios present practice situations with questions and answers to help you apply concepts to community practice Genomics coverage provides a history of genetics and genomics and how they impact public community health nursing care Coverage

of ongoing health care reform issues includes the impact of the Patient Protection and Affordable Care Act of 2010 ACA on public health nursing Evidence Based Practice boxes highlight current research findings their application to practice and how community public health nurses can apply the study results NEW COVID 19 pandemic information has been added NEW Healthy People 2030 objectives are highlighted throughout the book addressing the health priorities and emerging health issues expected in the next decade NEW Updated content and figures reflect the most current data issues trends and practices NEW Expanded Check Your Practice boxes use Clinical Judgment Next Generation NCLEX steps to guide your thinking about practice scenarios

Holt Biology Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008

Statistical Genomics Ben Hui Liu, 2017-11-22 Genomics the mapping of the entire genetic complement of an organism is the new frontier in biology This handbook on the statistical issues of genomics covers current methods and the tried and true classical approaches

Pacific Conservation Biology, 2009

The Journal of the Astronautical Sciences, 1974

The Wilson Bulletin, 1957

A Primer of Population Genetics Daniel L. Hartl, 1988 The use of molecular methods to study genetic polymorphisms has made a familiarity with population genetics essential for any biologist whose work is at the population level A Primer of Population Genetics Third Edition provides a concise but comprehensive introduction to population genetics The four chapters of the book address genetic variation the causes of evolution molecular population genetics and the genetic architecture of complex traits Chapter end problems reinforce ideas and while there are some equations the emphasis is on explanation rather than derivation

Écoscience, 2006

Elements of Ecology Robert Leo Smith, Thomas Michael Smith, 2000 Provides an accessible introduction to ecology for non majors

Animal Structure and Function Cecie Starr, Ralph Taggart, 1998 This selected paperback binding of the EIGHTH EDITION OF BIOLOGY THE UNITY AND DIVERSITY OF LIFE gives instructors the option of purchasing a shorter text covering selected excerpted topics Six paperbacks are available CELL BIOLOGY AND GENETICS EVOLUTION OF LIFE DIVERSITY OF LIFE PLANT STRUCTURE AND FUNCTION ANIMAL STRUCTURE AND FUNCTION and ECOLOGY AND BEHAVIOR ANIMAL STRUCTURE AND FUNCTION covers Unit VI Animal Structure and Function and contains a customized table of contents and the back matter from BIOLOGY THE UNITY AND DIVERSITY OF LIFE The ANIMAL STRUCTURE AND FUNCTION volume includes animal tissues homeostasis anatomy and physiology of all major organ systems and many human applications Supplements to accompany BIOLOGY THE UNITY AND DIVERSITY OF LIFE main text are also applicable

World Health and Disease Philip Payne, 1993 An examination of contemporary and historical patterns of health and disease in the UK and the rest of the world It analyzes birth disease and death rates and examines the impact of social economic and medical change It also looks at the development of the modern diet

The Science of Genetics Alan G. Atherly, Jack R. Girton, John Francis McDonald, 1999 Iowa State Univ Ames Textbook for undergraduate biological science students Very colorful and user friendly format Includes chapter end questions boxed essays tables summaries key terms and

suggested readings *New Zealand Journal of Ecology* ,2008 Ecology Abstracts ,1981 Indexes journal articles in ecology and environmental science Nearly 700 journals are indexed in full or in part and the database indexes literature published from 1982 to the present Coverage includes habitats food chains erosion land reclamation resource and ecosystems management modeling climate water resources soil and pollution Ecology ,1987 Publishes essays and articles that report and interpret the results of original scientific research in basic and applied ecology **Evolutionary Politics** Glendon A. Schubert,1989 This synthesis of research into the behavior of humans and other social animals ranges horizontally from a congruence of the perspectives of the life sciences social sciences and physical sciences and longitudinally from that of the most recent 60 million years but emphasizing the last 12 thousand years From a political science perspective these essays focus on both individual and small group political behavior Schubert s work draws extensively on contemporary evolutionary theory biosocial and psychobiological theory ethology and primatology behavioral ecology experimental work in animal behavior neurobiology human development and the philosophy of both life and social sciences Introducing and concluding the book are essays that discuss the implications of biology and the life sciences for the study of political science The others center on five topics political ethology naturalistic study of human behavior as animal behavior political evolution evolutionary theory evolutionary development ecological epigenetic and ontogenetic and the evolution of human thinking

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