

Section 16–2 Evolution as Genetic Change

(pages 397–402)

Key Concepts

- How does natural selection affect single-gene and polygenic traits?
- What is genetic drift?
- What is the Hardy–Weinberg principle?

Natural Selection on Single-Gene Traits (pages 397–398)

1. Is the following sentence true or false? Natural selection on single-gene traits cannot lead to changes in allele frequencies. _____
2. If a trait made an organism less likely to survive and reproduce, what would happen to the allele for that trait? _____

3. If a trait had no effect on an organism's fitness, what would happen to the allele for that trait? _____

Natural Selection on Polygenic Traits (pages 398–399)

4. List the three ways that natural selection can affect the distributions of phenotypes.
 - a. _____
 - b. _____
 - c. _____

Match the type of selection with the situation in which it occurs.

Type of Selection	Situation
_____ 5. Directional	a. Individuals at the upper and lower ends of the curve have higher fitness than individuals near the middle.
_____ 6. Stabilizing	b. Individuals at one end of the curve have higher fitness than individuals in the middle or at the other end.
_____ 7. Disruptive	c. Individuals near the center of the curve have higher fitness than individuals at either end.

8. An increase in the average size of beaks in Galápagos finches is an example of _____ selection.
9. Is the following sentence true or false? The weight of human infants at birth is under the influence of disruptive selection. _____

Workbook Chapter 16 2 Evolution As Genetic Change Answers

CH Cherryholmes



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Student Solutions Manual and Supplemental Problems to Accompany Genetics: Analysis of Genes and Genomes Daniel Hartl, Maryellen Ruvolo, 2011-10-13 This must have student resource contains complete solutions to all end of chapter problems in *Genetics Analysis of Genes and Genomes* Eighth Edition by Daniel L Hartl and Maryellen Ruvolo as well as a wealth of supplemental problems and exercises with full solutions a complete chapter summary and keyword section The supplemental problems provided in this manual are designed as learning opportunities rather than exercises to be completed by rote They are organized into chapters that parallel those of the main text and all problems can be solved through application of the concepts and principles explained in *Genetics* Eighth Edition

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

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FEATURES The calendar provides lesson planning with clear objectives and the worksheets and quizzes are all based on the materials provided for the course

CBSE Class 12th Biology - 10 Most Likely Question Papers with Solutions By Career Point, Kota Career Point Kota, 2020-07-28 The CBSE has made certain changes in the assessment structure from the session 2019 20 onwards In the new scheme of examination CCE and term system has been replaced with the Internal Assessment Single Annual Exam by CBSE itself Single exam conducted by

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conversation and critical evaluation Key terms are emboldened throughout the text and are listed at the end of each chapter and definitions can be found in the Glossary For instructors who adopt the book an affiliated question bank is free to download

Genetics Daniel L. Hartl, 2011-08-05 Thoroughly revised and updated with the latest data from this ever-changing field the Eighth Edition of Genetics Analysis of Genes and Genomes provides a clear balanced and comprehensive introduction to genetics and genomics at the college level Expanding upon the key elements that have made this text a success Hartl has included updates throughout as well as a new chapter dedicated to genetic evolution He continues to treat transmission genetics molecular genetics and evolutionary genetics as fully integrated subjects and provide students with an unprecedented understanding of the basic process of gene transmission mutation expression and regulation New chapter openers include a new section highlighting scientific competencies while end of chapter Guide to Problem Solving sections demonstrate the concepts needed to efficiently solve problems and understand the reasoning behind the correct answer

A Companion to Biological Anthropology Clark Spencer Larsen, 2023-03-10 A Companion to Biological Anthropology The discipline of biological anthropology the study of the variation and evolution of human beings and their evolutionary relationships with past and living hominin and primate relatives has undergone enormous growth in recent years Advances in DNA research behavioral anthropology nutrition science and other fields are transforming our understanding of what makes us human A Companion to Biological Anthropology provides a timely and comprehensive account of the foundational concepts historical development current trends and future directions of the discipline Authoritative yet accessible this field defining reference work brings together 37 chapters by established and younger scholars on the biological and evolutionary components of the study of human development The authors discuss all facets of contemporary biological anthropology including systematics and taxonomy population and molecular genetics human biology and functional adaptation early primate evolution paleoanthropology paleopathology bioarchaeology forensic anthropology and paleogenetics Updated and expanded throughout this second edition explores new topics revisits key issues and examines recent innovations and discoveries in biological anthropology such as race and human variation epidemiology and catastrophic disease outbreaks global inequalities migration and health resource access and population growth recent primate behavior research the fossil record of primates and humans and much more A Companion to Biological Anthropology Second Edition is an indispensable guide for researchers and advanced students in biological anthropology geosciences ancient and modern disease bone biology biogeochemistry behavioral ecology forensic anthropology systematics and taxonomy nutritional anthropology and related disciplines

Genetics Daniel Hartl, Maryellen Ruvolo, 2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation

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Fundamentals of Genetics Peter J. Russell, 2000 Fundamentals of Genetics Second Edition provides a concise easy to read introduction to genetics Based on the author's best selling Genetics Fifth Edition the text is carefully crafted to present full coverage of the subject without overwhelming students with details and complex explanations A friendly writing style complements Russell's effective step by step problem solving approach which guides students to an understanding of principles and concepts Fundamentals of Genetics Second Edition is particularly ideal for students who have a limited background in biology or chemistry or for briefer courses in which there is little time for advanced topics A greatly expanded supplements package now accompanies the text

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