

## 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. \_\_\_\_\_

# Evolution As Genetic Change Section Review Answers

**Nick J. Royle, Per T. Smiseth, Mathias  
Kölliker**



## Evolution As Genetic Change Section Review Answers:

**Biology** Joseph S. Levine, Kenneth R. Miller, 1998      The Evolution of Parental Care Nick J. Royle, Per T. Smiseth, Mathias Kölliker, 2012-08-09 Parental care includes a wide variety of traits that enhance offspring development and survival This novel book provides a fresh perspective on the current state of the study of the evolution of parental care written by some of the top researchers in the field and taking a broad taxonomic approach      **The Science of Genetics** Alan G. Atherly, Jack R. Gorton, 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      **Evolution** , 1994      **Biology** Eric Strauss, Marilyn Lisowski, 2000      **The Eugenics Review** , 1918      *The Quarterly Review* William Gifford, Sir John Taylor Coleridge, John Gibson Lockhart, Whitwell Elwin, William Macpherson, William Smith, John Murray, Rowland Edmund Prothero (Baron Ernle), George Walter Prothero, 1909      **Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02      **The Homiletic Review** , 1922      Evolutionary Genetics Glenn-Peter Sætre, Mark Ravinet, 2019-05-13 With recent technological advances vast quantities of genetic and genomic data are being generated at an ever increasing pace The explosion in access to data has transformed the field of evolutionary genetics A thorough understanding of evolutionary principles is essential for making sense of this but new skill sets are also needed to handle and analyze big data This contemporary textbook covers all the major components of modern evolutionary genetics carefully explaining fundamental processes such as mutation natural selection genetic drift and speciation It also draws on a rich literature of exciting and inspiring examples to demonstrate the diversity of evolutionary research including an emphasis on how evolution and selection has shaped our own species Practical experience is essential for developing an understanding of how to use genetic and genomic data to analyze and interpret results in meaningful ways In addition to the main text a series of online tutorials using the R language serves as an introduction to programming statistics and analysis Indeed the R environment stands out as an ideal all purpose source platform to handle and analyze such data The book and its online materials take full advantage of the authors own experience in working in a post genomic revolution world and introduces readers to the plethora of molecular and analytical methods that have only recently become available Evolutionary Genetics is an advanced but accessible textbook aimed principally at students of various levels from undergraduate to postgraduate but also for researchers looking for an updated introduction to modern evolutionary biology and genetics      **Proceedings** , 2008      **Loose-leaf Version for Psychology** Peter O. Gray, 2014-04-30 Peter Gray s evolutionary perspective and emphasis on critical thinking have made his rigorous yet accessible introduction to psychology a widely respected classroom favorite edition after edition Now thoroughly revised with the help of new co author David Bjorklund Psychology Seventh Edition invites and stimulates students to investigate the big ideas in psychological science      **Essential Readings in Evolutionary Biology** Francisco J. Ayala, John C.

Advise, 2014-03-15 Traces scholarly thought from the nineteenth century birth of evolutionary biology to the mapping of the human genome through forty eight essays arranged in chronological order each preceded by a one page essay that explains the significance of the chosen work      **Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008      **Biology** Kenneth R. Miller, 1991      *Evolutionary Processes and Metaphors* Mae-Wan Ho, Sidney W. Fox, 1988-06-03 Evolutionary Processes and Metaphors Edited by Mae Wan Ho Department of Biology The Open University UK Sidney W Fox Institute for Molecular and Cellular Evolution University of Miami USA The current evolutionary debate encompasses protobiotic chemistry at one extreme and human sociobiology at the other Meanwhile significant advances continue to be made in many scientific disciplines which have far reaching implications on our view of nature Although it is now generally felt that neo Darwinism at least in its orthodox form is no longer an adequate theory of evolution very few attempts have yet been made to articulate a coherent alternative out of the many voices of dissent The purpose of the present volume is two fold to work towards a new evolutionary synthesis which takes full account of contemporary knowledge in all disciplines and to examine explicitly the metaphorical basis of evolutionary theories old and new as this has a powerful impact on our humanistic perspectives which underpin all social and political actions We have brought together representatives of two groups of workers those who ultimately believe in working within a transformed neo Darwinism and others who advocate a more radical reorientation away from the orthodoxy Despite their fundamentally different affiliations they are nonetheless able to communicate on questions of evolutionary concepts and mechanisms and their wider relevance to science and society New insights are presented on major issues such as the physicochemical underpinnings of life processes the meaning of natural selection the nature of variation heredity and morphogenesis the integration of organism and environment the active role of the organism in evolution and the evolution of human society The new synthesis which is emerging is an integrated multilevel and multidisciplinary approach to evolution which accords not only with the state of present day knowledge but with our deepest experience of nature      **Understanding The Origin And Global Spread Of Covid-19** Nalin Chandra Wickramasinghe, Reginald M Gorczynski, Edward J Steele, 2022-06-29 This curated collection of scientific papers on the origin and global spread of COVID 19 is a unique project that offers explanations at odds with mainstream views as the theme mainly focuses on Panspermia viruses microorganisms and their spores and cometary arrival of even more complex cellular organisms No other scientific group has paid attention to the temporal unfolding scientific order at the many required levels of understanding astrobiological and astrophysical geographical and the temporal order of global proportions yet regional epidemics the immunologic dimensions to the infection and epidemic data the genetics of the SARS CoV 2 virus as it adapted varied and appeared in different human populations in the crucial first few months of the pandemic This in depth analysis over a two year period allows a better understanding of what engulfed the world during the COVID 19 pandemic how it happened and the most plausible way There are many lessons for future generations that can be

distilled from the contributions found in this book      **AP Biology** Mark Anestis,2006-12 Provides a study plan to build knowledge and confidence discusses study skills and strategies provides two practice exams and includes a review of the core concepts covered by the material      *Heredity* ,1947      Life: The Science of Biology David E. Sadava,H. Craig Heller,Gordon H. Orians,William K. Purves,David M. Hillis,2012-12-10 From its first edition Life has set the standard for experiment based introductory biology texts There is no stronger textbook for helping students understand not just what we know scientific facts but how we know it the experimental process that leads to their discovery The new edition of Life builds upon this tradition teaching fundamental concepts and showcasing significant research while responding to changes in biology education

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