

Chapter 21: The Evolution of Populations

This chapter begins with the idea that we focused on as we closed the last chapter: Individuals do not evolve! Populations evolve.

Study Tip: Always study the figures and pictures and their legends carefully as they have been chosen to illustrate and explain important ideas.

1. What are the three main mechanisms that can cause the evolution of populations?

Natural selection, genetic drift, and gene flow are mechanisms that can cause the evolution of populations.

2. What is microevolution?

Microevolution is a change in allele frequencies in a population over generations.

2. Of the three mechanisms of evolution, you cited in your response to question 1, what is the only mechanism that is *adaptive*, or improves the match between organisms and their environment?

Natural selection is an adaptive mechanism where the organisms that are better adapted to their environment tend to survive and produce more offspring.

3. Perhaps because we tend to focus on mutations that cause changes in phenotypes, it is easy to think that every mutation will lead to a phenotypic change. Explain how a substitution error in an exon could have no effect on the amino acid sequence.

This is because only the genetic change will be passed on to the offspring not the phenotypic change. An example of this could be in a body builder. The muscles are not passed down from generation to generation.

4. Several sources of genetic variation are available. What is the ultimate source of new

Evolution Of Populations Chapter Guided Reading

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The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schlüter, Michael C. Whitlock, 2017-03-21 The essential one volume reference to evolution The Princeton Guide to Evolution is a comprehensive concise and authoritative reference to the major subjects and key concepts in evolutionary biology from genes to mass extinctions Edited by a distinguished team of evolutionary biologists with contributions from leading researchers the guide contains some 100 clear accurate and up to date articles on the most important topics in seven major areas phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society Complete with more than 100 illustrations including eight pages in color glossaries of key terms suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students scientists in related fields and anyone else with a serious interest in evolution Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations including eight pages in color Each article includes an outline glossary bibliography and cross references Covers phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society

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A Practical Guide for Genetic Management of Fragmented Animal

and Plant Populations Richard Frankham, Jonathan D. Ballou, Katherine Ralls, Mark Eldridge, Michele R. Dudash, Charles B. Fenster, Robert C. Lacy, Paul Sunnucks, 2019-10-23 The habitats of most species have been fragmented by human actions isolating small populations that consequently develop genetic problems Millions of small isolated fragmented populations are likely suffering from inbreeding depression and loss of genetic diversity greatly increasing their risk of extinction Crossing between populations is required to reverse these effects but managers rarely do so A key reason for such inaction is that managers are often advised to manage populations in isolation whenever molecular genetic methods indicate genetic differences among them Following this advice will often doom small populations to extinction when the habitat fragmentation and genetic differences were caused by human activities A paradigm shift is required whereby evidence of genetic differentiation among populations is a trigger to ask whether any populations are suffering genetic problems and if so whether they can be rescued by augmenting gene flow Consequently there is now an urgent need for an authoritative practical guide to facilitate this paradigm shift in genetic management of fragmented populations

The New Walford

Guide to Reference Resources Ray Lester, 2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors But rather than supplying a list of all available known resources as a web search engine might The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful With an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature This ensures that The New Walford is clear easy to use and intuitive Publisher

Instructor's Guide for Campbell's Biology Nina Caris, Harold T. Underwood, 1996 Study Guide

George Karleskint, 1991 **Biology** Glencoe/McGraw-Hill, 1994-07 **Discover Biology** Michael Lee Cain, Carol Kaesuk Yoon, Anu Singh-Cundy, 2009 Discover Biology helps students become biologically literate students to progress from science to scientific literacy

Evolution Douglas J. Futuyma, 2009 Douglas Futuyma presents an overview of current thinking on theories of evolution aimed at an undergraduate audience Study Guide for Race to Save the Planet Telecourse, 1999 Edition Edward C. Wolf, 1998-06-09 Study Guide for the Annenberg Telecourse Designed to help telecourse students organize and comprehend the material presented on the 10 one hour television programs this Study Guide offers learning objectives excercises activities glossaries references and more for each of the 10 telecourse units In addition this guide presents three

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Resource Guide to Accompany Delivering Health Care in America Leiyu Shi,2006 *Ecology* ,1995 *Houghton Mifflin Guide to Reading Textbooks* Carol C. Kanar,Elizabeth Grasby,2001-03-20 This guide has five full textbook chapters and an accompanying study guide section from a variety of disciplines Following each textbook chapter are two sections of instruction and exercises for the students The first section Textbook Features explains methods for improving reading skills

The Family ,1929 *Essential Genetics* Daniel L. Hartl,1996 This textbook is designed for an introductory one semester or one quarter course in genetics The learning objectives are to understand the basic processes of gene transmission mutation expression and regulation to learn to formulate genetic hypotheses to develop basic skills in problem solving and to gain some sense of the social and historical context in which genetics has developed Annotation copyrighted by Book News Inc Portland OR **Study Guide for Life on Earth** P.S. Associates,1978 Study Guide for Living Systems, Principles and Relationships, 3rd Edition James M. Ford,1977 **The Nation** ,1903 Intercom ,1982 **Changing Approaches to Population Problems** Margaret Wolfson,1978

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