

Chapter 23: 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. The Overview looks at the work of Peter and Rosemary Grant with Galápagos finches to illustrate this point, and the rest of the chapter examines the change in populations over time. As in the last chapter, first read each concept to get the big picture and then go back to work on the details presented by our questions. Don't lose sight of the conceptual understanding by getting lost in the details!

Overview

1. What is *microevolution*?

Microevolution is evolutionary change below the species level, change in the allele frequencies in a population over generations.

2. What are the three main mechanisms that can cause changes in allele frequency?

Natural selection, genetic drift, and gene flow

3. What is the only mechanism that is adaptive, or improves the match between organisms and their environment?

Natural selection

Concept 23.1 Genetic variation makes evolution possible

4. Because Darwin did not know about the work of Gregor Mendel, he could not explain how organisms pass heritable traits to their offspring. In looking at genetic variation, what are *discrete characters*, and what are *quantitative characters*?

Discrete characters can be classified on an either-or basis.

Quantitative characters vary along a continuum within a population.

5. Using the techniques of molecular biology, what are the two ways of measuring genetic variation in a population?

Survey the protein products of genes using gel electrophoresis and compare the DNA sequences of two individuals in a population.

6. Geographic variation may be shown in a graded manner along a geographic axis known as a *cline*. What external factors might produce a *cline*? Why does the existence of a cline suggest natural selection?

Some clines are produced by a gradation in an environmental variable, such as temperature. The existence of a cline suggests natural selection because of the close association between the environmental variable and the frequency of the allele.

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The Hekalogy Method Kalie Morvane / Luiz Santos, 2026-02-28 The Hekalogy Method outlines a structured transformation path in which metabolic restoration emerges from reorganizing the inner climate. It argues that eating behavior, chronic stress, sleep, movement, and identity reinforce one another and that lasting change stabilizes when the system learns safety, rhythm, and presence. With tools for trigger recognition including the Name Accept Release technique, breathing practices, and routine-based protocols, the book offers a progressive method for reducing reliance on food as anesthesia and strengthening a coherent self-led lifestyle.

The St. Martin's Guide to Writing Rise B. Axelrod, Charles R. Cooper, 2010-01-26 This textbook provides instruction in college-level rhetoric and writing. It offers readings, a research manual, a handbook, and supports a range of approaches to teaching and learning, including collaboration, visual rhetoric, personal writing, writing about literature, writing in the community, and the workplace. It includes field research, portfolios, oral presentations, essay exams, and ESL. It contains step-by-step guides to writing specific kinds of essays: remembering events, writing profiles, explaining a concept, finding common ground, arguing a position, proposing a solution, justifying an evaluation, speculating about causes, and interpreting stories. Because so much college writing requires strong argumentation skills, four of the assignment chapters focus on argumentative writing, and a separate strategies chapter covers theses, reasons, and support, counterarguments, and logical fallacies. Three full chapters on research give students useful strategies not only for conducting field, library, and Internet research but also for evaluating sources, deciding whether to quote, paraphrase, or summarize, avoiding plagiarism, and documenting sources. The authors have included 39 readings by well-known authors and various fresh voices, including 12 students, providing well-written examples of the different types of essays and papers that students might be asked to complete.

World History: Connections to Today Elisabeth Gaynor Ellis, Pearson/Prentice Hall, 2003-12

A Literary Guide to the Bible Laura Hulda Wild, 1922

Human Heritage Miriam Greenblatt, Peter S. Lemmo, 2001 A world history textbook chronicling the rise of Western and Eastern civilizations. Includes photos, art, illustrated charts, vocabulary exercises, and review questions.

The Outline of Knowledge: The history of the world, by A. D. Innes. The romance of money, by R. M. Knerr. The reader's guide James Albert Richards, 1924

Young Adult and Canonical Literature Paula Greathouse, Victor Malo-Juvera, 2021-03-15 In the last decade alone, the world has changed in seismic ways as marriage equality has been ruled on by the Supreme Court, social justice issues such as #MeToo and Black Lives Matter have arisen, and issues of immigration and deportation have come to the forefront of politics across the globe. Thus, there is a need for an updated text that shares strategies for combining canonical and young adult literature that reflects the changes society has and continues to experience. The purpose of our collection is to offer secondary 6-12 teachers engaging ideas and approaches for pairing young adult and canonical novels to provide unique examinations of topics that teaching either text in isolation could not afford. Our collection does not center canonical texts, and most chapters show how both texts complement each

other rather than the young adult text being only an extension of the canonical Within each volume the chapters are organized chronologically according to the publication date of the canonical text The pairings offered in this collection allow for comparisons in some cases for extensions in others and for critique in all Volume 2 covers The Canterbury Tales 1392 through Fallen Angels 1988 *The Outline of Knowledge: The history of the world* James Albert Richards,1924 *Study Guide and Working Papers for Cost Accounting, Principles and Applications, Fourth Edition*, Brock [and] Palmer Linda A. Herrington,1984 [Bible Comments for Home Reading](#) Herbert Samuel Goldstein,1930 [Friends Don't Lie](#) Cath Weeks,2019-10-24 Riveting thought provoking and impeccably written I loved it Carol Mason This twisty tale explores the dark side of friendship and is just asking to be demolished in the back garden with a chilled glass of rose Heat Magazine A real page turner Bella How well do you know your friends Everyone knows Melissa Silk and her two best friends a walking poster for friendship and community People might hate them if they weren't so infectiously likeable But when a fatal accident causes their perfect world to shatter Melissa can't move on Everyone urges Melissa not to let obsession and paranoia pull their friendship group apart But she knows that something about the accident doesn't quite add up What if learning the truth means losing everything she cherishes Because friends don't lie Or do they This is a gripping novel of friendship and heartache perfect for fans of Susan Lewis Amanda Prowse and Kate Hewitt Praise for Cath Weeks A tense thriller that will keep you intrigued The Sun Friends Don't Lie took my breath away This is an absolute must read Claire Dyer It'll make you weep Elle The writing gnaws away at you forcing you to question your own morals Evening Standard Beautifully written and refreshingly unique Peterborough Evening Telegraph You ride a rollercoaster of emotions throughout the book as you wonder how you would react in similar circumstances Woman's Way **Empowered by His Presence** Kevin G. Harney,2014-10-28 God's kingdom isn't about getting more power it's about being empowered to face life head on and fulfill his purposes for us For readers who are feeling beaten down and discouraged by constant striving Kevin Harney points to four surprising and God-given sources of true strength suffering loss and pain community Sabbath and rest mission and purpose Through biblical and personal stories he shows how each source daily empowers believers to live boldly serve humbly and overcome whatever difficult circumstances they may be facing Perfect for small group study and individual devotion **Bad Reputation** Krista Ritchie,Becca Ritchie,2022-03-08 Everyone knows the Hales Mega rich and salaciously famous No one knows shy quiet Willow Moore Until she makes one daring move that changes her world forever At seventeen Willow moves across the country to connect with her famous older brother Loren Hale Before she can even say hello she runs into the teenager who's been vandalizing Loren's house with his group of delinquent friends Garrison Abbey is off limits As decreed by her very protective older brother But if he's so awful then why is he so friendly to her Willow can't help but be drawn to the mysterious boy next door He has a bad reputation She's yet to carve one of her own The more their paths cross the more Willow realizes maybe just maybe they're exactly what each other needs Bad Reputation is a collector's edition of

Willow Garrison s romance It contains TWO NOVELS Whatever It Takes and Wherever You Are in chronological order A READING GUIDE to read along with the Addicted Calloway Sisters Series BONUS CHAPTERS not found in the duet If you have not met Willow and Garrison yet we highly recommend starting with Whatever It Takes **Tarbell's Teachers' Guide to the International Sunday-school Lessons for ...** ,1919 **Girl Next Door** Alyssa Brugman,2010-05-01 A novel about losing your home and finding your family from the award winning Australian author of Walking Naked and Finding Grace See what happened was our lives were going really well My mum got a promotion I enrolled in an A list school and then my Dad had this great idea to start an empire But now he s gone to the country What does that mean Is it the same place they take old sick dogs Has he joined a cult It s been two months now and I still don t know what it means Declan the boy next door says that my dad s in hospital but everyone s dying as far as Declan is concerned Now there are strange people living in our spare rooms and all my stuff is on the lawn I ve tried to raise it with my mum but she talks to me as if I am a four year old when she talks to me at all which is less and less lately Hello Can somebody please tell me what s going on **Tarbell's Teacher's Guide to the International Bible Lessons for Christian Teaching of the Uniform Course** ,1914 **The American Journey** Joyce Oldham Appleby,Alan Brinkley,James M. McPherson,2003 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 **Acts and Resolves Passed by the ... Legislature of the State of Maine** Maine,1911 [The Children's Friend](#) ,1909

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