

Unit 6: Evolution

Population Genetics (Chapter 11)

I. Genes and Variation

• **The two main sources of genetic variation are mutations and the genetic shuffling that results from sexual reproduction.** (gene shuffling brings together new combinations of genes)

- allelic frequency –the percentage of a particular allele (trait) in a gene pool.
- camouflage –organisms blend in with surrounding environment
- mimicry –species copy another to insure their own survival
- gene pool –all the genes that exist within a population
- single-gene trait – can produce only two phenotypes (ie, attached or unattached earlobes)
- polygenic trait – can produce many phenotypes (produce a bell curve)
- gene flow –movement of alleles into or out of a population
- genetic drift –change in allelic frequencies by chance

Ex: sudden extinction of a dominant species; small populations most affected

- genetic equilibrium –when alleles remain constant (stay the same) from generation to generation

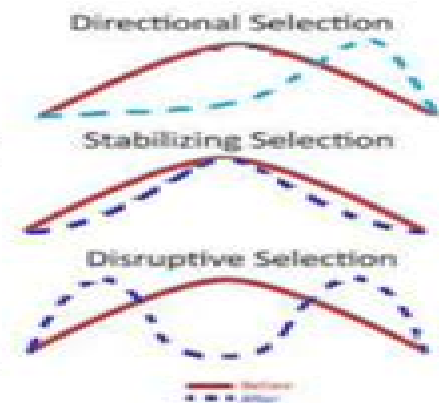
II. Evolution as Genetic Change

Natural selection works on the individual level, but affects the population.

Natural selection on single-gene traits can lead to changes in allele frequencies and thus to evolution.

Natural selection on polygenic traits can affect the distribution of phenotypes in any of three ways:

- Direct Selection-Individuals on one end of a curve are “better fitted” than the middle or other end
- Stabilizing Selection- Individuals near center of a curve are “better fitted” than both ends
- Disruptive Selection- Individuals at upper and lower ends are “better fitted” the ones in the middle



Study Guide 13 Population Genetics Problems

Lance D. Chambers



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Transmission and Population Genetics Benjamin A. Pierce, 2008-02-15 This new brief version of Benjamin Pierce's *Genetics: A Conceptual Approach* Third Edition responds to a growing trend of focusing the introductory course on transmission and population genetics and covering molecular genetics separately

Practical Handbook of Genetic Algorithms Lance D. Chambers, 2019-09-17 *Practical Handbook of Genetic Algorithms Volume 3: Complex Coding Systems* contains computer code examples for the development of genetic algorithm systems, compiling them from an array of practitioners in the field. Each contribution of this singular resource includes unique code segments, documentation, descriptive *Cumulated Index Medicus*, 1994

Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students, each chapter of the study guide offers a variety of study and review tools. The contents of each chapter are broken down into both a detailed review of the important concepts covered and a boiled-down big picture snapshot. The guide also covers study strategies, common problem areas, and provides a set of study questions, both multiple choice and short answer

Biology for the IB Diploma Andrew Allott, 2001 This concise guide provides all the content you need for the IB Diploma in Biology at both Standard and Higher Level. It follows the structure of the IB Programme exactly and includes all the options. Each topic is presented on its own page for clarity. Standard and Higher Level material is clearly indicated. Plenty of practice questions. Written with an awareness that English may not be the reader's first language

Kaplan & Sadock's Study Guide and Self-Examination Review in Psychiatry Benjamin J. Sadock, Virginia A. Sadock, Pedro Ruiz, 2012-03-28 Kaplan Sadock's Study Guide and Self-Examination Review in Psychiatry is a comprehensive review of the specialty and perfect for stand-alone review or as preparation for the PRITE in service ABPN Part I and recertification examinations. The book contains more than 1,600 multiple choice questions and answers with explanatory discussions of correct and incorrect responses. Chapters parallel the essential corresponding chapters in Kaplan Sadock's *Synopsis of Psychiatry*, a staple of psychiatry education around the globe. Terms and definitions are consistent with DSM-IV-TR and ICD-10

Human Evolutionary Genetics Mark Jobling, Edward Hollox, Toomas Kivisild, Chris Tyler-Smith, 2013-06-25 *Human Evolutionary Genetics* is a groundbreaking text which for the first time brings together molecular genetics and genomics to the study of the origins and movements of human populations. Starting with an overview of molecular genomics for the non-specialist, which can be a useful review for those with a more genetic background, the book shows how

Problem-Solving in Conservation Biology and Wildlife Management James P. Gibbs, Malcolm L. Hunter, Jr., Eleanor J. Sterling, 2011-08-31 This set of exercises has been created expressly for students and teachers of conservation biology and wildlife management who want to have an impact beyond the classroom. The book presents a set of 32 exercises that are primarily new and greatly revised versions from the book's successful first edition. These exercises span a wide range of conservation issues: genetic analysis, population biology, and management, taxonomy, ecosystem management, land use.

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