

# Chapter 17: Evolution of Populations

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## State Standards

**Central Concept:** Evolution is the result of genetic changes that occur in constantly changing environments. Over many generations, changes in the genetic make-up of populations may affect biodiversity through speciation and extinction.

- 5.2 Describe species as reproductively distinct groups of organisms. Recognize that species are further classified into a hierarchical taxonomic system (kingdom, phylum, class, order, family, genus, species) based on morphological, behavioral, and molecular similarities. Describe the role that geographic isolation can play in speciation.
- 5.3 Explain how evolution through natural selection can result in changes in biodiversity through the increase or decrease of genetic diversity within a population.
- 5.3.1 Make observations, raise questions, and formulate hypotheses.
- Observe the world from a scientific perspective.
  - Pose questions and form hypotheses based upon personal observations, scientific articles, experiments, and knowledge.

## Key Terms

Gene

Gene Pool

Single-Gene Trait

Polygenic Trait

Phenotype

Population

Directional Selection

Stabilizing Selection

Disruptive Selection

Genetic Drift

Bottleneck Effect

Founder Effect

Sexual Selection

Species

Speciation

Reproductive Isolation

Behavioral Isolation

Geographic Isolation

Temporal Isolation

## You should be able to:

1. Define evolution in genetic terms.
2. State what determines the number of phenotypes for a trait.
3. Explain how natural selection affects single-gene and polygenic traits.
4. Describe genetic drift and list the two examples of genetic drift.
5. Distinguish between directional, stabilizing, and disruptive selection for polygenic traits.
6. Identify the types of isolation that can lead to the formation of new species.
7. Describe the current hypothesis about Galapagos finch speciation.

## You should know the difference between:

- Genetic Drift: Bottleneck Effect and Founder Effect
- Single-Gene Traits and Polygenic Traits
- Directional, Stabilizing, and Disruptive Selection
- Reproductive Isolation: Behavioral, Geographic, and Temporal Isolation

# Section 16 Evolution Of Populations Study Guide

**Ilkka A. Hanski, Oscar E. Gaggiotti**



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The Genetic Structure of Populations A. Jacquard,2012-12-06 It is part of the ideology of science that it is an international enterprise carried out by a community that knows no barriers of nation or culture But the reality is somewhat different Despite the best intentions of scientists to form a single community unseparated by differences of national and political viewpoint they are in fact separated by language Scientific literature in German is not generally assimilated by French workers nor that appearing in French by those whose native language is English The problem appears to have become more severe since the last war because the ascendance of the United States as the preeminent economic power led in a time of big and expensive science to a pre dominance of American scientific production and a growing tendency at least among English speakers to regard English as the international language of science International congresses and journals of world circulation have come more and more to take English as their standard or official language As a result students and scientific workers in the English speaking world have become more linguistically parochial than ever before and have been cut off from a considerable scientific literature Population genetics has been no exception to the rule The elegant and extremely innovative theoretical work of Malecot for example is only now being properly assimilated by population biologists outside France It was therefore with some sense of frustration that I read Prof **Study Guide to Accompany Biology, Third Edition, by Arms & Camp** Virginia Fry,1987 **Environmental Science** Michael L. McKinney,Robert M. Schoch,Logan Yonavjak,2013 Updated with the latest data from the field Environmental Science Systems and Solutions Fifth Edition explains the concepts and teaches the skills needed to understand multi faceted and often very complex environmental issues The authors present the arguments rebuttals evidence and counterevidence from many sides of the debate The Fifth Edition includes new Science in Action boxes which feature cutting edge case studies and essays contributed by subject matter experts that highlight recent and ongoing research within environmental science With an Earth as a system approach the text continues to emphasize Earth s intricate web of interactions among the biosphere atmosphere hydrosphere and lithosphere and how we are central components in these four spheres This flexible unbiased approach highlights 1 how matter cycles over time through Earth s systems2 the importance of the input throughput output processes that describe the global environment3 how human activities and consumption modify Earth s systems4 and the scientific economic and policy solutions to environmental problemsRevised and updated to reflect current trends and statistics within Environmental

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Ecology, Genetics and Evolution of Metapopulations Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-05-17 Ecology Genetics and Evolution of Metapopulations is a collection of specially commissioned articles that looks at fragmented habitats bringing together recent theoretical advances and empirical studies applying the metapopulation approach Several chapters closely integrate ecology with genetics and evolutionary biology and others illustrate how metapopulation concepts and models can be applied to answer questions about conservation epidemiology and speciation The extensive coverage of theory from highly regarded scientists and the many substantive applications in this one of a kind work make it invaluable to graduate students and researchers in a wide range of disciplines Provides a comprehensive and authoritative account of all aspects of metapopulation biology integrating ecology genetics and evolution Developed by recognized experts including Hanski who won the Balzan Prize for Ecological Sciences Covers novel applications of the metapopulation approach to conservation

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Nash,Raymond J. Fabius,Alexis Skoufalos,Janice L. Clarke,Melissa R. Horowitz,2015-03-16 Preceded by Population health David B Nash et al c2011      *Principles of Behavioral Genetics* Robert R.H. Anholt,Trudy F. C. Mackay,2009-09-21 Principles of Behavioral Genetics provides an introduction to the fascinating science that aims to understand how our genes determine what makes us tick It presents a comprehensive overview of the relationship between genes brain and behavior Introductory chapters give clear explanations of basic processes of the nervous system and fundamental principles of genetics of complex

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**Study Guide** Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities

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