

# 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

# Chapter 17 Evolution Of Populations Answers

**Jin-Ying Zhang**



## Chapter 17 Evolution Of Populations Answers:

**Biology for You** Gareth Williams,2002 This Support Pack has been fully revised and updated with additional guidance on developing the new specifications activities ICT support technician cards additional revision and assessment material including past paper questions and model answers *Student Solutions Manual and Supplemental Problems to Accompany Genetics* Daniel L. Hartl,Elizabeth W. Jones,2004-09-07 This introductory college level textbook introduces the basic processes of gene transmission mutation expression and regulation Hartl Harvard U and Jones Carnegie Mellon U present an integrated view of the modern world of genetics treating classical molecular and population genetics as unified subdisciplines within the field Modern an *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 *Videodisc Correlatn GD Modern Biology 99* Holt Rinehart & Winston,1998-02 **Artificial Life V** Christopher G. Langton,Katsunori Shimohara,1997 In addition to presenting the latest work in the field Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable practical tools for the pursuit of science and engineering goals May 16 18 1996 Nara Japan Despite all the successes in computer engineering adaptive computation bottom up AI and robotics Artificial Life must not become simply a one way bridge borrowing biological principles to enhance our engineering efforts in the construction of life as it could be We must ensure that we give back to biology in kind by developing tools and methods that will be of real value in the effort to understand life as it is Artificial Life V marks a decade since Christopher Langton organized the first workshop on artificial life a decade characterized by the exploration of new possibilities and techniques as researchers have sought to understand through synthetic experiments the organizing principles underlying the dynamics usually the nonlinear dynamics of living systems In addition to presenting the latest work in the field Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable practical tools for the pursuit of science and engineering goals *Complex Adaptive Systems series Must Know High School Biology, Second Edition* Kellie Ploeger Cox,2022-06-03 A unique and effective way to learn Biology updated with the latest instruction and review Must Know High School Biology provides a fresh approach to learning As part of our Must Know series this new edition makes sure what you really need to know is clear up front Rather than starting with goals to be met chapters begin by telling you the most important concepts about the topic at hand and then show you exactly how these concepts help you accomplish your goals Written by an expert biology educator Must Know High School Biology Second Edition provides updated lesson content and useful examples to help clarify each topic Every chapter closes with reinforcing exercises to get you the practice you need to gain confidence New features to this edition focus on extra support and helping you avoid common mistakes In the end you get everything you need to build your biology skills quickly and painlessly

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**Fish Development And Genetics: The Zebrafish And Medaka Models** Zhiyuan Gong,Vladimir Korzh,2004-11-02 The zebrafish is the most important fish model in developmental and genetic analyses This book contains 19 review articles covering a broad spectrum of topics from development to genetic tools The contents range from early development the role of maternal factors and gastrulation to tissue differentiation and organogenesis such as development of the organizer notochord floor plate nervous system somites muscle skeleton and endoderm The genetic tools cover morpholino knock down transgenics fish cloning transposons and genome evolution The book also includes two chapters on genome mapping and embryonic stem cells in medaka another important model fish Summarizing the state of the art studies of the zebrafish model and focusing on the molecular aspects of development this book is a valuable reference for students learning the basic aspects of the zebrafish model and for researchers seeking resources in zebrafish research

**Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications** Larry G. Sellers,2000 Biology Joseph P. Chinnici,Bradley,1996 English Mechanic and Mirror of Science ,1883 *Biology* Robert D. Allen,1995 This book presents the fundamental concepts of biology and develops students critical thinking skills to apply these concepts It

introduces the procedures of hypothesis formation prediction experimental design and interpretation as the essential parts of scientific investigation It covers cell theory and focus es on energy as well as the catalytic action of enzymes and diffusion across cell membranes It covers the major physiological systems in organisms Primary emphasis is placed on the application of basic concepts such as diffusion osmosis energy capture and release and the action of enzymes This book include s molecular biology and population genetics as well as cell division and Mendelian inheritance It finally cover s the mechanisms of selection and speciation as well as the long range implications of evolution Pref *English Mechanic and Mirror of Science and Art* ,1883 **English Mechanic and World of Science** ,1893 **Study Guide Essential Biology with Physiology** Edward J. Zalisko,2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website *Evolution* Iain Gilmour,1993 This text introduces the mechanisms of evolution at all scales the genetic through other biological aspects to the palaeontological scale illustrating the hierarchy of processes involved **Biology** Karen Arms,Pamela S. Camp,1982 *Biology* Wallace,1998-03-21 **Evolution and Animal Breeding** William G. Hill,Trudy F. C. Mackay,1989 *Genetic Principles* Gordon Edlin,1984

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