

# Selection and Speciation

How can changes in a population result in the formation of a new species?

## Why?

Have you ever wondered how the great diversity of life on Earth has come about or how a single new species forms? Environmental pressures may cause populations to change over time or evolve. This is because an organism's ability to live to adulthood in its current environment will determine its reproductive success and ability to pass on its genes. But changes within a population can occur without creating a new species. At what point do scientists start thinking of a new name for a species?

### Model 1 – Three Types of Selection



1. What variables do the graphs in Model 1 compare?
2. What are the three types of selection illustrated in the graphs in Model 1?
3. According to the graphs in Model 1, there is variation in the body mass in the original population. Using your knowledge of genetics, describe how this variation is possible.
4. Refer to graph A of Model 1.
  - a. How is the population that has experienced selection different from the original population?
  - b. **Fitness** is defined as the relative ability of an individual (or population) to survive, reproduce, and pass on genes. Which individuals in the original population appear to display better fitness?
  - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph A.
5. Refer to graph B of Model 1.
  - a. How is the population that has experienced selection different from the original population?
  - b. Which individuals in the original population appear to display better fitness?
  - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph B.
6. Refer to graph C of Model 1.
  - a. How is the population that has experienced selection different from the original population?
  - b. Which individuals in the original population appear to display better fitness?
  - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph C.

# Selection And Speciation Pogil

**Erin Furtak**



## **Selection And Speciation Pogil:**

**Supporting Teachers' Formative Assessment Practice with Learning Progressions** Erin Furtak, 2017-10-05 This book presents the results of a four year National Science Foundation funded project that engaged nine high school biology teachers at three public high schools in long term on site professional development program centered on a learning progression It explores the influence of teacher participation in this professional development experience on their learning about student thinking formative assessment task design classroom practices and student learning Taking an in depth look at the multiple sources of data gathered as part of the study this volume reflects on the emergence of professional communities focused on formative assessment design and enactments and associations between teacher participation in learning progression centered professional development and student learning The Role of Selection in Speciation Judith Masters,

**Selection and Speciation** MacDonald, *Adaptive Speciation* Ulf Dieckmann, 2004-09-02 First published in 2004 this book by internationally recognized leaders in the field clarifies how adaptive processes rather than geographic isolation can cause speciation **Selection** Graham Bell, 2008-12-18 This book adopts an experimental approach to understanding the mechanisms of evolution and the nature of evolutionary processes with examples drawn from microbial plant and animal systems It incorporates insights from remarkable recent advances in theoretical modelling and the fields of molecular genetics and environmental genomics Adaptation is caused by selection continually winnowing the genetic variation created by mutation In the last decade our knowledge of how selection operates on populations in the field and in the laboratory has increased enormously and the principal aim of this book is to provide an up to date account of selection as the principal agent of evolution In the classical Fisherian model weak selection acting on many genes of small effect over long periods of time is responsible for driving slow and gradual change However it is now clear that adaptation in laboratory populations often involves strong selection acting on a few genes of large effect while in the wild selection is often strong and highly variable in space and time Indeed these results are changing our perception of how evolutionary change takes place This book summarizes our current understanding of the causes and consequences of selection with an emphasis on quantitative and experimental studies It includes the latest research into experimental evolution natural selection in the wild artificial selection selfish genetic elements selection in social contexts sexual selection and speciation Speciation and Its Consequences Daniel Otte, John A. Endler, 1989 **Selection, sex, speciation and species** Andrew Cockburn, 1991

**Natural Selection** Charles Darwin, 1996 Natural Selection Charles Darwin, 1975 Speciation and selection Ernst Mayr, 1949 **Geographic Variation, Speciation and Clines** John A. Endler, 2020-03-31 Geographic Variation Speciation and Clines explores the origins and development of geographic variation divergence and speciation In particular it is concerned with genetic divergence as it is usually found on continents among groups of populations isolated only by distance Although earlier writers on this topic considered the effects of geography and dispersal intense geographic differentiation

and speciation were thought to require complete isolation Professor Endler shows how geographic differentiation and speciation may develop in spite of continuous gene flow Following a review of the diverse and scattered literature on gene flow and population differentiation the author discusses the relationships among gene flow dispersal and migration He then summarizes the factors which limit the geographic extent of gene flow and those which allow steep clines to develop in the absence of barriers to gene flow His analysis draws on examples from the field experiments and single and multiple locus models The mechanism and conditions for parapatric speciation are presented steepening clines development into hybrid zones and the evolution of sexual isolation In the final chapter the author considers the interpretation of natural clines and the associated geographic patterns of subspecies and species

*How and Why Species Multiply* Peter R. Grant, B. Rosemary Grant, 2020-03-31 Charles Darwin's experiences in the Galapagos Islands in 1835 helped to guide his thoughts toward a revolutionary theory that species were not fixed but diversified from their ancestors over many generations and that the driving mechanism of evolutionary change was natural selection In this concise accessible book Peter and Rosemary Grant explain what we have learned about the origin and evolution of new species through the study of the finches made famous by that great scientist Darwin's finches Drawing upon their unique observations of finch evolution over a thirty four year period the Grants trace the evolutionary history of fourteen different species from a shared ancestor three million years ago They show how repeated cycles of speciation involved adaptive change through natural selection on beak size and shape and divergence in songs They explain other factors that drive finch evolution including geographical isolation which has kept the Galapagos relatively free of competitors and predators climate change and an increase in the number of islands over the last three million years which enhanced opportunities for speciation and flexibility in the early learning of feeding skills which helped species to exploit new food resources Throughout the Grants show how the laboratory tools of developmental biology and molecular genetics can be combined with observations and experiments on birds in the field to gain deeper insights into why the world is so biologically rich and diverse Written by two preeminent evolutionary biologists *How and Why Species Multiply* helps to answer fundamental questions about evolution in the Galapagos and throughout the world

**Natural Selection and Its Constraints** Oliver Mayo, 1983 **On the Origin of Species by Means of Natural Selection** Charles Darwin, 2017-11-21 Excerpt from *On the Origin of Species by Means of Natural Selection Or the Preservation of Favored Races in the Struggle for Life* Recapitulation of the general and special circumstances in its favour Causes of the general belief in the immutability of species How far the theory of Natural Selection may be extended Effects of its adoption on the study of Natural History Concluding remarks 404-429 About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing

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## **Table of Contents Selection And Speciation Pogil**

1. Understanding the eBook Selection And Speciation Pogil
  - The Rise of Digital Reading Selection And Speciation Pogil
  - Advantages of eBooks Over Traditional Books
2. Identifying Selection And Speciation Pogil
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Selection And Speciation Pogil
  - User-Friendly Interface
4. Exploring eBook Recommendations from Selection And Speciation Pogil
  - Personalized Recommendations
  - Selection And Speciation Pogil User Reviews and Ratings
  - Selection And Speciation Pogil and Bestseller Lists
5. Accessing Selection And Speciation Pogil Free and Paid eBooks

- Selection And Speciation Pogil Public Domain eBooks
- Selection And Speciation Pogil eBook Subscription Services
- Selection And Speciation Pogil Budget-Friendly Options
- 6. Navigating Selection And Speciation Pogil eBook Formats
  - ePub, PDF, MOBI, and More
  - Selection And Speciation Pogil Compatibility with Devices
  - Selection And Speciation Pogil Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Selection And Speciation Pogil
  - Highlighting and Note-Taking Selection And Speciation Pogil
  - Interactive Elements Selection And Speciation Pogil
- 8. Staying Engaged with Selection And Speciation Pogil
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Selection And Speciation Pogil
- 9. Balancing eBooks and Physical Books Selection And Speciation Pogil
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Selection And Speciation Pogil
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Selection And Speciation Pogil
  - Setting Reading Goals Selection And Speciation Pogil
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Selection And Speciation Pogil
  - Fact-Checking eBook Content of Selection And Speciation Pogil
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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