

# Evolution and Selection

What mechanisms lead to changes in the diversity of species on Earth?

## Why?

People make choices by selecting options they like best. The natural world also “selects” (although not as a conscious decision) when environmental conditions allow organisms with a particular genetic trait to live healthier lives than other organisms. In this activity, we will explore how selection affects populations over time.

## Model 1 – Desktop Swab Results



1. What is the source of the bacteria in the culture tube in Model 1?
2. How many genetic variants of *E. coli* were present in the culture from the initial swab?
3. What variants of *E. coli* are found on the dish grown without triclosan?
4. Refer to the dish in Model 1 with the medium that included triclosan.
  - a. What variants of *E. coli* are found on the dish grown with triclosan?
  - b. What likely happened to the other variants of *E. coli* on the dish with the medium containing triclosan?
5. Based on its effect on *E. coli*, why is triclosan used as a cleaning agent?
6. Suppose the desktop swabbed earlier was cleaned with a solution containing triclosan. Would living *E. coli* remain? Support your answer.
7. Suppose the desktop was swabbed again after cleaning it with triclosan over a 9-month school year. When the sample was cultured only variant S was seen.
  - a. What characteristic does the variant S bacteria have that allows it to remain on the desktop even after several months of treatment with triclosan?
  - b. Is it likely that the bacteria in the new swab were on the desk 9-months ago, or are they offspring of the original bacteria?
  - c. Propose an explanation for the presence of only variant S on the desktop after so much time.

# Evolution And Selection Pogil Answers

**Graham Bell**



## **Evolution And Selection Pogil Answers:**

*Evolution For Dummies* Greg Krukonis, Tracy L. Barr, 2011-04-20 Today most colleges and universities offer evolutionary study as part of their biology curriculums *Evolution For Dummies* will track a class in which evolution is taught and give an objective scientific view of the subject This balanced guide explores the history and future of evolution explaining the concepts and science behind it offering case studies that support it and comparing evolution with rival theories of creation such as intelligent design It also will identify the signs of evolution in the world around us and explain how this theory affects our everyday lives and the future to come

**Natural Selection** J. Phil Gibson, Terri R. Gibson, 2009 In his groundbreaking book *Natural Selection* Charles Darwin explained his theory that evolution is driven by adaptation of species to their environmental surroundings From the tiniest microbe to the largest whale all organisms have changed over vast expanses of time due to the forces of natural selection This new title in the Science Foundations series provides an overview of the processes and causes that drive natural selection and the principles that explain how it operates using numerous diverse organisms as examples *Natural Selection* promotes a solid understanding of how organisms change over the course of generations and how current biodiversity came to be

**Natural Selection in the Wild** John A. Endler, 2020-03-31 Natural selection is an immense and important subject yet there have been few attempts to summarize its effects on natural populations and fewer still which discuss the problems of working with natural selection in the wild These are the purposes of John Endler's book In it he discusses the methods and problems involved in the demonstration and measurement of natural selection presents the critical evidence for its existence and places it in an evolutionary perspective Professor Endler finds that there are a remarkable number of direct demonstrations of selection in a wide variety of animals and plants The distribution of observed magnitudes of selection in natural populations is surprisingly broad and it overlaps extensively the range of values found in artificial selection He argues that the common assumption that selection is usually weak in natural populations is no longer tenable but that natural selection is only one component of the process of evolution natural selection can explain the change of frequencies of variants but not their origins

**Evolution by Natural Selection**, 1971

**Evolution by Natural Selection** Michaelis Michael, 2015-11-18 A persistent argument among evolutionary biologists and philosophers revolves around the nature of natural selection *Evolution by Natural Selection Confidence Evidence and the Gap* explores this argument by using a theory of persistence as an intentional foil to examine ways in which similar theories can be misunderstood It discusses Charles Darwin's *Evolution by Natural Selection*, 2006 *Evolution by Natural Selection* Charles Darwin, Alfred Russel Wallace, 1958 Charles Darwin's sketch of 1842 Charles Darwin's essay of 1844 On the evidence favourable and opposed to the view that species are naturally formed races descended from common stocks On the tendency of species to form varieties and on the perpetuation of varieties and species by natural means of selection

*On the Origin of Species* Charles Darwin, 2019-01-08 Charles Robert Darwin 12 February 1809 19 April 1882 was an English naturalist

geologist and biologist best known for his contributions to the science of evolution His proposition that all species of life have descended over time from common ancestors is now widely accepted and considered a foundational concept in science In a joint publication with Alfred Russel Wallace he introduced his scientific theory that this branching pattern of evolution resulted from a process that he called natural selection in which the struggle for existence has a similar effect to the artificial selection involved in selective breeding Darwin published his theory of evolution with compelling evidence in his 1859 book *On the Origin of Species* overcoming scientific rejection of earlier concepts of transmutation of species By the 1870s the scientific community and a majority of the educated public had accepted evolution as a fact However many favoured competing explanations and it was not until the emergence of the modern evolutionary synthesis from the 1930s to the 1950s that a broad consensus developed in which natural selection was the basic mechanism of evolution Darwin's scientific discovery is the unifying theory of the life sciences explaining the diversity of life

**Evolution and Animal Life** David Starr Jordan, Vernon Lyman Kellogg, 1907

**The Greatest Show on Earth** Richard Dawkins, 2009-09-10 Charles Darwin's masterpiece *On the Origin of Species* shook society to its core on publication in 1859 Darwin was only too aware of the storm his theory of evolution would provoke but he would surely have raised an incredulous eyebrow at the controversy still raging a century and a half later Evolution is accepted as scientific fact by all reputable scientists and indeed theologians yet millions of people continue to question its veracity In *The Greatest Show on Earth* Richard Dawkins takes on creationists including followers of Intelligent Design and all those who question the fact of evolution through natural selection Like a detective arriving on the scene of a crime he sifts through fascinating layers of scientific facts and disciplines to build a cast iron case from the living examples of natural selection in birds and insects the time clocks of trees and radioactive dating that calibrate a timescale for evolution the fossil record and the traces of our earliest ancestors to confirmation from molecular biology and genetics All of this and much more bears witness to the truth of evolution *The Greatest Show on Earth* comes at a critical time systematic opposition to the fact of evolution is now flourishing as never before especially in America In Britain and elsewhere in the world teachers witness insidious attempts to undermine the status of science in their classrooms Richard Dawkins provides unequivocal evidence that boldly and comprehensively rebuts such nonsense At the same time he shares with us his palpable love of the natural world and the essential role that science plays in its interpretation Written with elegance wit and passion it is hard hitting absorbing and totally convincing

**Evolution and Natural Selection** David Christopher Lane, Dr August Weismann, 2018-03-18 August Weismann is regarded by many biologists including Ernst Mayr from Harvard University to be second only to Charles Darwin for progressing our understanding of evolution by natural selection In this book excerpted from the larger commemorative tome *Darwin and Modern Science* edited by A C Seward and others Weismann tackles many of the difficult questions confronting natural selection In the process Weismann offers a penetrating critique of Lamarck and provides the reader with rich and robust

understanding of evolutionary theory This volume has been selected and slightly edited by Professor David Christopher Lane Ph D *Evolution and Natural Selection* Charles Darwin,1959 **The Paradox of Evolution** Stephen Rothman,2015-12-01 This book examines a little noted contradiction inherent in the two essential elements of Darwin s theory of biological evolution natural selection and reproduction Physiologist Stephen Rothman makes the revolutionary claim that the evolution of life s complex and diverse reproductive mechanisms is not the consequence of natural selection In so doing he exposes the deepest question possible about life s nature its reason for being In meticulously detailed but accessible terms he lays out the crux of the paradox and offers an intriguing solution within a naturalistic framework In an ostensibly purposeless universe somehow purposeful life has evolved For all living things there are two overarching purposes survival and the creation of new life Natural selection is about the survival of existing life but has no interest in life s future about whether it persists or perishes By contrast reproduction is only about the future of life and has no interest in existing life except as a means to that end Where do these purposes come from As Rothman demonstrates at every level life is wired to react to danger Counterintuitively without the danger to its existence life would not have come into being As for reproduction nature s destructive forces drive the creation of new life Written with great clarity and informed by deep learning this elegant thoughtful work tackles some of the most challenging questions raised by the theory of evolution while calling to mind Darwin s famous words from the conclusion of *On the Origin of Species* There is a grandeur in this view of life *The Genetical Theory of Natural Selection* Sir Ronald Aylmer Fisher,1930 Fisher established mathematical population genetics and his fundamental theorem of natural selection which is the rate of increase in fitness of any organism at any time is equal to its genetic variance in fitness at that time **The Origin of Species by Means of Natural Selection** Charles Darwin,1882 **Evolution through natural selection** The Open University, This 4 hour free course described the theory of evolution by natural selection as proposed by Darwin in his 1859 book *On the Origin of Species* **On the Origin of Species** Charles Darwin,2013 *On the Origin of Species* has recently celebrated the 150th anniversary of its publication so what better time to read this ground breaking work of natural science It laid the foundation for the field of evolutionary biology which hinges on the theory that populations evolve over the course of generations through a process of natural selection 150 years later this is still a contentious issue it divides people who accept Darwin s theories as facts and those who think he s a fraud But how many of those who accept the ideas of evolution and natural selection can actually argue its case *Selection: the Mechanism of Evolution* Graham Bell,1997 [The Big Questions: Evolution](#) Francisco Ayala,2013-11-05 Easy enlightening and mind stretching here are answers to the 20 biggest questions of evolution and what they tell us about life on Earth The Big Questions series is designed to let renowned experts address the 20 most fundamental and frequently asked questions of a major branch of science or philosophy Each 3 000 word essay simply and concisely examines a question that has eternally perplexed enquiring minds and provides answers based on the latest research This ambitious project is a

unique distillation of humanity's best ideas In *The Big Questions Evolution* Francisco Ayala answers the 20 key questions: What is evolution? Was Darwin right? What is natural selection? What is survival of the fittest? Is evolution a random process? What is a species? What are chromosomes, genes, and DNA? How do genes build bodies? What is molecular evolution? How did life begin? What is the tree of life? Am I really a monkey? What does the fossil record tell us? What is the missing link? Is intelligence inherited? Will humans continue to evolve? Can I clone myself? Where does morality come from? Is language a uniquely human attribute? Is Creationism true?

*On the Origin of Species by Means of Natural Selection* Charles Robert Darwin, 1872

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