

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 Answer Key

Balaji

Sampath,Ravishankar,Marimuthu

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Evolution by Natural Selection, 1974 **Evolution by Natural Selection** Gavin De Beer, 1963 **Evolution by Natural Selection** Open University. Science Foundation Course Team, 1971 **The Theory of Natural Selection is Advanced as the Basis of Evolution** Charles Darwin, 1958 *Evolution By Natural Selection* Open University, 1973

Evolution by Natural Selection Open University. Science Foundation Course Team, 1971 *Evolution by Natural Selection*, 1971 **Examining Undergraduate Understanding of Natural Selection and Evolution** Meena Michelle Balgopal, 2007 This dissertation explores the understanding of evolution and natural selection by zoology and biological sciences education majors in two upper division undergraduate courses To date there has been little research on evolution misconceptions held by these two populations Students misconceptions regarding evolution typically revolve around teleological and Lamarckian explanations for adaptations origin of variation and fitness There are other misconceptions however that are described in this dissertation The overarching objective of the dissertation was to identify variables that might influence the conceptual change A mixed method analysis was developed to identify instances of conceptual change that go undetected when only quantitative analyses are used Through interpretations of in depth interviews written discourse diagnostic tests instructor interviews and field notes it was discovered that students professional and personal affiliations influenced their motivation to resolve misconceptions There were three main findings of this doctoral study First the effects of direct instruction on misconceptions enabled students to identify incorrect teleological wording but did not necessarily change students writing about evolution Higher achieving students with career interests in biology were more likely to resolve their teleological misconceptions than lower achieving students Second zoology student written discourse could be divided into subjective objective and authentic categories based on personal and professional connections that students made in their writing Students who wrote authentically expressed intentions of pursuing professional biological research Third biological sciences education students were found to have composite identities based on personal and professional affiliations which either hindered or enhanced their motivation to resolve evolution misconceptions Students personal affiliations to religious communities of practice did not hinder their motivation to understand evolution However students fears of a not being able to resolve competing religious and scientific explanations for diversity of life and or b not being prepared to defend evolution concepts to their employers and students were factors that influenced their motivation to learn Biological

sciences education students appeared to identify themselves as sharers of scientific knowledge not as producers of scientific knowledge I posit that identity plays a role in the conceptual change process **Science Foundation Course** ,1970

Evolution and Natural Selection Sophie McCormick,1982 Introduction to Natural Selection Clifford Johnson,1976
Genetic systems and fitness Evidence for selection The balanced polymorphism or th non neutral equilibria Selection coefficients in natural populations Varying fitness and the unit of selection Quantitative traits and the selection effect
Selection in retrospect and prospect The Evolution of Adaption by Natural Selection Royal Society (Great Britain),

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