

Natural Selection Simulation at PHET

This simulation is located on the school's server. See instructions on board to access the simulation.



1. When you first open the simulation, one bunny will be shown on your screen. If you don't do anything with the simulation, what happens to the bunny?
If you don't do anything with the simulation the bunny does not change and nothing else happens other than it hopping around the land.
2. The simulation allows you to control types of mutations that occur in the bunnies. Look for the area that says "add mutation." What kind of changes can you make to your bunny?
In the area that says "add mutation" you can add fur, ears, and teeth.
3. There are two selection factors listed that can also be changed. What are they?
The selection factors in the simulation that can be changed include wolves, tough food, and limited food.
4. What are the two environments you can choose?
You can choose a summer or winter environment.
5. Click on the RESET ALL button and you will get another bunny. This time, click the button that says "add a friend." What happens to the bunnies this time?
When you click "add a friend" the bunnies reproduce and eventually overpopulate as time goes on.
6. In nature, populations don't get out of control because there are limiting factors in the environment. Start your simulation over and click to add food as a selection factor. **Describe** what happens to the bunnies when food is added as a selection factor.
When food is selected as a limiting factor the bunnies are still able to reproduce just at a much slower rate and at times the population drops and increases.
7. Animals have adaptations that can help them survive in their environment. Reset the simulation and add the "long teeth" mutation to your bunnies and use "food" as your selection factor. **Describe** what happens to the bunnies this time.



Natural Selection Lab Phet Simulation Answers

Bryan F. Manly



Natural Selection Lab Phet Simulation Answers:

The Statistics of Natural Selection on Animal Populations Brian F. Manly, 2013-03-09 In the concluding chapter of his famous book on the theory of evolution by natural selection Charles Darwin 1859 remarked that When the views entertained in this volume on the origin of species or when analogous views are generally admitted we can dimly foresee that there will be a considerable revolution in natural history This proved of course to be completely correct At present there is a great divergence of opinion about the general importance of natural selection in the evolutionary process Nevertheless biologists are on the whole united in their acceptance of the potential power of selection in changing populations Given this situation it is not surprising to find that many attempts to detect the effects of natural selection have been made since the time of Darwin This area of study has been called ecological genetics It involves the collection of data of various kinds and in many cases the development of special methods for analysing these data This book is a summary of methods for data analysis concentrating on those that are applicable to animal populations particularly wild populations **A Simulation of**

Adaptation by Natural Selection of Phenotypes in an Artificial Ecology Frederick Lark Wasmer, 1993 *Introduction to Natural Selection* Clifford Johnson, 1976 Genetic systems and fitness Evidence for selection The balanced polymorphism or the 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 Natural Selection of Populations and Communities* David Sloan Wilson, 1980 **The Statistics of Natural Selection on Animal Populations** Bryan F. J. Manly, 1987

Chelsea Science Simulations Sophie McCormick, 1982 **Theory of Natural Selection and Population Growth** Lev R. Ginzburg, 1983 **Natural Selection**, The Statistics of Natural Selection on Animal Populations Bryan Manly, 2014-01-15 *Natural Selection and Its Constraints* Oliver Mayo, 1983 **Contributions To The Theory Of Natural Selection**, 1870 *Natural Selection and Heredity* Philip Macdonald Sheppard, 1967 *Statistics of Natural Selection* Bryan F. Manly, 1987-10-15 The study of evidence for natural selection Mark recapture experiments Samples taken from a population within one generation Comparison of live and dead animals Complete counts of survivors Evidence from the spatial distribution of a population Gene frequency changes at a single genetic locus Equilibrium gene frequencies at a single locus Selection on quantitative variables Further analyses using genetic data Non random mating and sexual selection Concluding remarks **Contributions to the Theory of Natural Selection** Alfred Russel Wallace, 2003 *Contributions to the Theory of Natural Selection* Alfred Russel Wallace, 1976 *The Genetical Theory of Natural Selection* Sir Ronald Aylmer Fisher, 2013 *Natural Selection* George Christopher Williams, 2023 Examining the mechanism and action of natural selection in evolution the author offers his own synthesis of modern evolutionary theory including discussions of the gene as the unit of selection clade selection and macroevolution diversity within and among populations and other central issues

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