

Lab 2 Mathematical Modeling Hardy Weinberg College Board

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Lab 2 Mathematical Modeling Hardy

- The student is able to use data from mathematical models based on the Hardy-Weinberg equilibrium to analyze genetic drift and effects of selection in the evolution of specific populations (1A3 & SP 1.4, SP 2.1).
- The student is able to justify data from mathematical models based on the Hardy-

BACKGROUND - AP Central

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The equations for the Hardy-Weinberg model are: $p + q = 1$, where p equals the frequency of the dominant allele, and q equals the frequency of the recessive allele.

Mathematical Modeling - Hardy-Weinberg: Biology Lab ...

Group Size: For 10 lab groups
Time Required: Complete in 2 hours
Kit Includes: Instructions, PTC taste paper and control taste paper
All You Need: Computer with spreadsheet software and calculator with square root function
Storage: Room Temperature

AP02 - LAB 2: Mathematical Modeling: Hardy-Weinberg

benefits of a model — it forces you to think deeply about an idea. There are many approaches to model building; in their book on mathematical modeling in biology, Otto and Day (2007) suggest the following steps: 1. Formulate the question. 2. Determine the basic ingredients. 3. Qualitatively describe the biological system. 4.

INVESTIGATION 2 MATHEMATICAL MODELING: HARDY-WEINBERG

Hardy Weinberg Lab (AP Bio Lab #2) MATHEMATICAL MODELING: HARDY-WEINBERG How can mathematical models be used to investigate the relationship between allele frequencies in populations of organisms and evolutionary change?

Hardy Weinberg Lab (AP Bio Lab #2) - Mrs. Strong's AP Bio ...

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Hardy Weinberg: Mathematical Modeling. Description: The Hardy-Weinberg equilibrium is a principle stating that the genetic variation in a population will remain constant from one generation to the...

Investigation #2 - Mathematical Modeling: Hardy Weinberg ...

Investigation #2 Mathematical Modeling: Hardy-Weinberg www.njctl.org Summer 2014 Slide 2 / 35 Investigation #2: Mathematical Modeling · Pre-Lab · Guided Investigation · Independent Inquiry [Click on the topic to go to that section](#) · Pacing/Teacher's Notes Slide 3 / 35

AP BIOLOGY Investigation #2 Mathematical Modeling: Slide 3 ...

evaluate the results of the model with a critical eye. This is actually one of the powerful benefits of a model — it forces you to think deeply about an idea. There are many approaches to model building; in their book on mathematical modeling in biology, Otto and Day (2007) suggest the following steps: 1. Formulate the question. 2.

MATHEMATICAL MODELING: HARDY-WEINBERG*

Lab 2: Mathematical Modeling: Hardy-Weinberg. Overview. In this lab you will: learn about the Hardy-Weinberg law of genetic equilibrium, and study the relationship between evolution and change in allele frequency by using a mathematical model to demonstrate what can happen over many generations. Objectives. Before doing this lab you should understand:

AP Biology

Lab 2 AP Bio Hardy Weinberg Math Modeling using Excel Part I - Duration: 12:49. Kate Song 4,762 views. 12:49. ... Mathematical Modeling with Geogebra - Duration: 10:48.

Lab 2 Modeling HW Excel Part 2

BIG IDEA 12 EVT AP02.120829 EDVO-Kit: AP02 Mathematical Modeling: Hardy-Weinberg See Page 3 for storage instructions. EXPERIMENT OBJECTIVE: In this experiment, students will examine the effects of mutations, genetic drift and natural selection on gene frequency in a population by the Hardy-Weinberg law of genetic equilibrium. Using computer

EDVO-Kit: AP02 Mathematical Modeling: Hardy-Weinberg

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Lab 2: Mathematical Modeling: Hardy-Weinberg1 Overview In this lab you will: 1. learn about the Hardy-Weinberg law of genetic equilibrium, and 2. study the relationship between evolution and change in allele frequency by using a mathematical model to demonstrate what can happen over many generations Objectives

AP Biology Name

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Big Idea Investigation 2 T59 Evolution 1 INVESTIGATION 2 MATHEMATICAL MODELING: HARDY-WEINBERG* How can mathematical models be used to investigate the relationship between allele frequencies in populations of organisms and evolutionary change? BACKGROUND “Mathematics is biology’s next microscope, only better ...” (Cohen 2004) It is not hard to understand the value of microscope ...

Bio_Lab2-MathematicalModeling-Hardy-Weinberg - Evolution ...

benefits of a model — it forces you to think deeply about an idea. There are many approaches to model building; in their book on mathematical modeling in biology, Otto and Day (2007) suggest the following steps: 1. Formulate the question. 2. Determine the basic ingredients. 3. Qualitatively describe the biological system. 4.

BACKGROUND - KING'S SCIENCE PAGE

BigIdea Investigation 2 S25 Evolution 1 INVESTIGATION 2 MATHEMATICAL MODELING: HARDY-WEINBERG* How can mathematical models be used to investigate the relationship between allele frequencies in populations of organisms and evolutionary change? ?

AP Bio hardy Weinberg lab | CourseNotes

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