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Equilibrium (Part 1) Genetics (Hardy Weinberg Equation and Linkage mapping) Applying the Hardy-Weinberg equation | Biomolecules | MCAT l Khan Academy Student Exploration Hardy Weinberg **Equilibrium** Based on the values of p and q, calculate the percentages of Page 11/36

the DD and on Ddgenotypes: DD Dd. Check: If a population is in Hardy-Weinberg equilibrium, genotype percentages will remain stable over time. Set DDto the value given in part D above and dd to 16%. Run several generations in the Gizmo.

Student Exploration: Hardy-Weinberg **Equilibrium** (ANSWER KEY) In 1908, Godfrey Hardy and Wilhelm Weinberg independently discovered the laws that govern such populations. These laws can be explored in the Hardy-Weinberg Equilibrium Page 13/36

Gizmo™.1. The parrots you see on the SIMULATION pane represent a larger population of 500 parrots. Select the TABLE tab. How many parrots of each genotype are in the initial population

Student Exploration: Hardy-Weinberg Equilibrium Page 14/36

Vocabulary: allele, genotype, Hardy-erg Weinberg equation, Hardy-Weinberg principle, rs Kev heterozygous, homozygous, Punnett square Prior Knowledge Questions (Do these BEFORE using the Gizmo.) Suppose the feather color of a bird is controlled by two Page 15/36

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Student Exploration: Hardy-Weinberg Equilibrium. Vocabulary: allele, genotype, Hardy-Weinberg equation, Hardy-Weinberg principle,

heterozygous, homozygous, nberg incompletely dominant, Punnett square. Prior Key Knowledge Questions (Do these BEFORE using the Gizmo.). A bird's feather color is controlled by two alleles, D (dark feathers) and d (lighter feathers).). Suppose two Dd birds Page 17/36

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Equilibrium (answers

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Manipulate: The Hardy-Weinberg equation is p 2 + 2pq + q 2 = 1, where p = probability of D, q = probability of d, p2 = probability of DD, 2pq = probability of Dd, Page 18/36

and q2 = probability of dd. Look under Show Hardy-Weinberg quantities.

Answers Key

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Student Exploration Hardy Weinberg Page 20/36

Equilibrium Answers Key cry Weinberg These laws can be explored in the Hardy-Weinberg Equilibrium Gizmo. 1. The parrots you see represent a population of 500 parrots. For these parrots, the D allele is incompletely dominant over d, which means that Dd parrots are Page 21/36

intermediate between DD and dd parrots.

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Santiago Date ...
Hardy-Weinberg
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Lesson Info:
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the initial percentages
of three types of
parrots in a population
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and track changes in genotype and allele frequency through several generations. Analyze population data to develop an understanding of the Hardy-Weinberg equilibrium. Determine how initial allele percentages will affect the equilibrium state of the population. Page 23/36

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Hardy-Weinberg Equilibrium Gizmo : Lesson Info 2019 Name: Kev Date: Student Exploration: Hardy-Weinberg Equilibrium Vocabulary: allele, genotype, Hardy-Weinberg equation, Hardy-Weinberg principle, heterozygous, Page 24/36

homozygous, n incompletely dominant, Punnett square Prior **Knowledge Questions** (Do these BEFORE using the Gizmo.) 1. A bird's feather color is controlled by two alleles, D (dark feathers) and d (lighter feathers).

HardyWeinbergSE Page 25/36

Fillable.pdf - Anoosha Trehan Name Date ... in hardy weinberg equilibrium at day 21 or is evolution ev occurring explain your reasoning and identify which genotypes if any appear to be selected for or against p2 47 173 027 2pq 106 173 061 q2 20 173 012 cgcg cgcy cycy the data

suggests that the seedling population is evolving at day 21 name angelica riviezzo date student exploration hardy weinberg equilibrium vocabulary allele genotype hardy

Hardy Weinberg Equilibrium Gizmo Answer Hardy-Weinberg Page 27/36

principle - principle stating that the berg proportions of different alleles and genotypes in a ev population will remain stable as long as certain conditions are met. The Hardy-Weinberg principle applies to large populations in which mating is random, there is no migration, Page 28/36

no mutations are occurring, and natural selection is not occurring for the alleles in question.

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set the initial n percentages of three types of parrots in a population and track changes in genotype and allele frequency through several generations analyze population data to develop an understanding of the hardy weinberg equilibrium name angelica Page 35/36

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