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16-2 Evolution as Genetic Change Natural selection affects which individuals survive and reproduce and which do not. Evolution is any change over time in the relative frequencies of alleles in a population. Populations, not individual organisms, can evolve over time.

16-2 Evolution as Genetic Change Change

Figure 16–5Natural selection on single-gene traits can lead to changes in allele frequencies and thus to evolution. Organisms of one color, for example, may produce fewer offspring than

organisms of other colors. 16–2 Evolution as Genetic Change Section 16–2

16–2 Evolution as Genetic Change

16-2 Evolution as Genetic Change, pages 397-402 1. What does natural selection act upon? 2. How does natural selection work on alleles? 3. Describe how natural selection can affect traits controlled by single genes. 4. Summarize the single-gene natural selection scenario in Figure 16-5. 5.

16-2 Evolution as Genetic Change, pages 397-402

16-2 Evolution as Genetic Change Natural Selection on Polygenic Traits Three ways that natural selection can affect the distributions of phenotypes are 1- Stabilizing selection, 2- Directional selection 3-Disruptive selection Directional Directional selection is when individuals

16-2 Evolution as Genetic Change by harbik ghadimian on ...

Where To Download Section 16 2 Evolution As Genetic Changes Answers 16–2 Evolution as Genetic Change Natural selection acts on individuals. Evo-lution acts on populations. Natural selec-tion acting on individuals leads to the evolution of populations. Natural selection on a trait controlled by a single gene with two alleles can cause

Section 16 2 Evolution As Genetic Changes Answers

16-2 Evolution as Genetic Change If an individual dies without reproducing, it does not contribute to the gene pool. ! If an individual produces many offspring, its alleles stay in the gene pool and may increase in frequency.

16.2 – Evolution as Genetic Change

16–2 Evolution as Genetic Change Natural selection acts on individuals. Evo-lution acts on populations. Natural selec-tion acting on individuals leads to the evolution of populations. Natural selection on a trait controlled by a single gene with two alleles can cause one allele to increase and the other allele to decrease. Natural selection on polygenic

Chapter 16 Evolution of Populations Summary
2.10 Mechanisms of Evolution: Genetic Drift With genetic drift, the key word is “random” Genetic drift occurs when a population experiences random fluctuations in frequencies of genetic traits.The term “random” is key to an understanding of drift.

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[DOC] Section 16 2 Evolution As Genetic Change Answers 16-2 Evolution as Genetic Change Natural selection affects which individuals survive and reproduce and which do not.

Section 16 2 Evolution As Genetic Change Answers Key
Natural selection and some of the other evolutionary forces can only act on heritable traits, namely an organism’s genetic code. Because alleles are passed from parent to offspring, those that confer beneficial traits or behaviors may be selected, while deleterious alleles may not. Acquired traits, for the most part, are not heritable.

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GENETICS 16: Mr 1931 100 SEWALL WRIGHT the present status of genetics that any theory of evolution must be based on the properties of Mendelian factors, and beyond this, must be concerned largely with the statistical situation in the species. VARIATION OF GENE FREQUENCY

EVOLUTION IN MENDELIAN POPULATIONS

In genetic terms, evolution is any change in the relative frequency of alleles in a population.