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Answers should include some reference to the greater the sequence divergence, then the less DNA time (billions of years) mutations have occurred in the cytochrome c gene that do not affect the function of the cytochrome c protein. These mutations are called neutral mutations. GIIY Activities for AP* Biology . 22. Enter the names of the

Gene mutations produce changes in a single gene. involve only one or a few nucleotides. Substitutions, insertions, and deletions are all types of point mutations. • In a substitution one base is changed to a different base, which may affect only a single amino acid and have no effect at all.

Genetic Mutations 5 17. Gene mutations can be positive, negative or neutral. Suppose that the normal gene in Model 2 6 POGIL™ Activities for AP* Biology 20. All cells have DNA errors due to the mistakes that occur each time DNA is replicated prior to cell division. There are proofreading enzymes in cells that correct many of these

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cells use in Model 1 Gene Mutations. Sequence 1 . POGIL Activities for AP* Biology. 4. codons, and amino acids in your answer. These changes, called mutations, can lead to alterations in the structure and POGIL Activities for AP* Biology. 4. codons[] Read Book Online: Biology Pogil Activities Genetic Mutations Answers

Gene mutations can be positive, negative or neutral. Suppose that the normal gene in Model 2 produced a polypeptide that was necessary for cellular respiration. a. Choose a mutation from those in Model 2 that would be neutral for a cell. Explain your rea- 6™ Activities for AP* Biology POGIL 20. All cells have DNA errors due to the

Gene Mutations affect a single gene by changing its base sequence, resulting in an incorrect, or nonfunctional, protein being made. (a) A SUBSTITUTION mutation, occurs where one nucleotide base is replaced by another. These are often called “point mutations”, because a single base is changed, at one point in the gene.

Gene Expression—Transcription 3 Read This! In eukaryotes the enzyme RNA polymerase joins with several transcription factor proteins at the pro- moter, which is a special sequence of base pairs on the DNA template strand that signals the beginning of

Control of Gene Expression in Prokaryotes 1 2 POGIL™ Activities for AP* Biology 1. What type of operon is illustrated in Model 1? 2. Consider the operon in Model 1. Other than the gene that regulates the operon, how many 26. Some mutations can disable genes. What might be the result of such a mutation within the lac I