

AP Biology 033 – Genotypes and Phenotypes Video Review Sheet

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A. Introduction:

1. Genotype is:
2. Phenotype is:
3. Changes to the DNA can affect:
4. Two ways to get errors:
 - a. Damage to the DNA or mistakes in DNA replication, called
 - b. Errors in the Cell _____: Mitosis/Meiosis
5. What is the example he used to show what happens when you change the DNA, which changes an amino acid in a protein?

B. Mutations:

1. Ways to get mutations: mistakes from DNA replication, but also from:
2. Mutations played against the environment: List and differentiate between the three outcomes:
3. What is the example of a beneficial mutation relating to HIV?

C. Problems with the Cell cycle

1. What was the example of increased vigor?
2. Sterility?
3. Disorder?

D. Natural Selection example: