

Biology 11A Lab #5 Genetics and Inheritance

Pre-Lab Questions Complete sentences as always!

1. Give an *example* of the following terms. You are not writing a definition.

- Genetic trait
- Genotype
- Phenotype
- Dominant trait
- Recessive trait

2. Make a *drawing* that includes these labels:

- Gene
- Allele
- chromosome
- chromatid
- homologous pairs of chromosomes

Movie Discussion: The Human Race PBS

Lab #5: Genetics & Inheritance

Work in groups of two

This lab is designed to demonstrate **genetics**, or the study of how heritable characteristics are passed from generation to generation. Genetic traits are determined by **genes**, or small segments of DNA carried on chromosomes that determine physical characteristics. This exercise demonstrates how different alleles of the same gene segregate and reassort (separate and come together) in a population.

Summary of Activities

- Demonstrate some of Mendel's principles of genetics by simulating different types of mating crosses.
- Examine at the effect of natural selection on the frequency of alleles in a population.
- Observe some single-gene genetic traits in humans.

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I. Human Genetic Traits

Some human traits exhibit the simple dominant and recessive behavior of a monohybrid cross similar to Mendel's peas. However, the expression of many other human traits, like skin color or height, is much more complex and the genetics cannot be easily studied. We will look at a few easily observed

human genetic traits to illustrate the simple dominant-recessive relationship between alleles in humans.

Gene frequencies for a population will not necessarily show the same dominant/recessive ratios that you see for the offspring of a specific mating pair. When we calculate gene frequency, it is unlikely that we will have a 3:1 ratio of dominant traits to recessive traits. In our case, it is probably due more to small sample size than anything else. If you had a large immediate family to survey, these should segregate in a more classically Mendelian fashion.

- Mark your appropriate phenotype for each trait on the chart.
- Record the data for the class.

Human Inheritance Lab 35 Answer Key

Shasha Hu



Human Inheritance Lab 35 Answer Key:

The Top Books of the Year Human Inheritance Lab 35 Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Human Inheritance Lab 35 Answer Key : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://old.whatgoodnews.com/public/Resources/Documents/Step%20By%20Step%20Guide%20To%20Create%20Marketing%20Funnel%20With%20AI%20Without%20Paid%20Ads%20BATCH21%201393.pdf>

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