

Human Inheritance Lab

Purpose

To determine personal phenotypes and genotypes for some observable traits

To determine the frequencies (%) of dominant and recessive traits in a population

Materials

Pencil or Pen, diagrams of traits, lab sheet, PTC Paper

Procedure

Using the provided excel sheet found on the class website, determine the percent allele in the class and make a graph in excel.

- **Ear lobes (E):** Free ear lobes have at least one dominant allele. People with attached earlobes are recessive.
- **Eye color (B):** Inheritance of eye color is controlled by multiple genes, but people having the homozygous recessive genotype have blue eyes. People who have a dominant allele may have different shades of brown, hazel, or green eyes.
- **Widow's Peak (W):** A hairline that forms a downward point in the middle of the forehead is caused by a dominant allele. A smooth hairline is caused by a recessive genotype.
- **Tongue roller (T):** A dominant allele gives some people the ability to roll their tongues into a "U" shape when it is extended. People with the recessive alleles cannot roll their tongues.
- **Tongue folder (F):** A dominant allele gives some people the ability to fold their tongues over while sticking it out. People with the recessive genotype cannot.
- **Bent Little Finger (L):** A dominant allele results in the end joint of the little finger of each hand bending inward. Straight little fingers are a result of the recessive genotype.
Place your hands on a flat surface, palms down, and relax. Check to see if the first joints of your little fingers are bent or straight.
- **PTC Taster (P):** Individuals who can taste the bitter chemical phenylthiocarbamide, PTC, have at least one dominant allele. Those with the recessive genotype cannot taste it.
Taste the strip of control paper. Then taste the strip of PTC Paper to see if there is a difference or not.
- **Mid-Digital Hair (H):** Individuals who have hair on the middle joints of their fingers have at least one dominant allele. Those with two recessive alleles do not have hair on the joint.
- **Red hair (R):** Individuals with red hair have the recessive genotype. Those with any other color hair have at least one dominant allele.
- **Curly hair (C):** Individuals having curly hair have at least one dominant allele. People having straight hair have the recessive genotype.
- **Eye lashes (Y):** Short eyelashes are the result of a recessive genotype. Long eyelashes have at least one dominant allele.
- **Freckles (K):** The recessive genotype means the individual lacks freckles. An individual with freckles will have at least one dominant allele.
- **Dimples (D):** An individual without dimples is homozygous recessive, while an individual with dimples has at least one dominant allele.
- **Cleft Chin (M):** An individual with a genotype of homozygous recessive will have a cleft chin, while a person with at least one dominant allele will not have a cleft chin.
- **Hitchhiker's thumb (J):** A person that can bend the last joint of the thumb to approximately a 45 degree angle has the recessive genotype while an individual that cannot do it has at least one dominant allele.

Human Inheritance Lab Answers

Camilla Rothe



Human Inheritance Lab Answers:

Human Inheritance Lab Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Human Inheritance Lab Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. 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 captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 captivating 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 brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Human Inheritance Lab Answers Introduction

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