

Human Genetics Lab

Exploring Human Genetics

Genetics is the study of how traits are passed from parents to offspring. In this lab, you will explore the inheritance of a trait called "tongue rolling" (the ability to curl the tip of your tongue into a U-shape).

Procedure:

1. Determine if you can roll your tongue. Record your result in the table below.

2. Interview your family members to determine if they can roll their tongues. Record their results in the table below.

3. Analyze the data to determine the probability of offspring inheriting the trait.

4. Complete a chi-square analysis to determine if the observed results differ significantly from the expected results.

Individual	Can Roll Tongue (Yes/No)	Genotype (TT/Tt/tt)
You		
Parent 1		
Parent 2		
Offspring 1		
Offspring 2		
Offspring 3		
Offspring 4		
Offspring 5		
Offspring 6		
Offspring 7		
Offspring 8		
Offspring 9		
Offspring 10		

Expected Results:

If both parents are heterozygous (Tt), the expected results for their offspring are:

- 75% of offspring will be able to roll their tongues (Tt or TT).
- 25% of offspring will not be able to roll their tongues (tt).

Chi-Square Analysis:

Use the following formula to calculate the chi-square value:

$$\chi^2 = \sum \frac{(O - E)^2}{E}$$

Where O is the observed number of offspring and E is the expected number of offspring.

Compare your calculated chi-square value to the critical value in the chi-square distribution table to determine if the observed results differ significantly from the expected results.



Collect data and complete chi square analysis

Human Genetics Lab Answers

CL Gary



Human Genetics Lab Answers:

Human Genetics Lab Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Human Genetics Lab Answers : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped 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 captivating 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. Human Genetics Lab Answers : 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 weaves 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 compelling 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 masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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