

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 (RR/Rr/rR/rr)
You		
Parent 1		
Parent 2		
Parent 3		
Parent 4		
Parent 5		
Parent 6		
Parent 7		
Parent 8		
Parent 9		
Parent 10		
Parent 11		
Parent 12		
Parent 13		
Parent 14		
Parent 15		
Parent 16		
Parent 17		
Parent 18		
Parent 19		
Parent 20		

Expected Results:

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

- 75% chance of being able to roll their tongue (RR or Rr)
- 25% chance of not being able to roll their tongue (rr)

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 individuals and E is the expected number of individuals.

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

**Southern Illinois University at
Carbondale. College of Science**



Human Genetics Lab Answers:

Human Genetics Ricki Lewis, 2010 Explains what genes are how they function how they interact with the environment and how our understanding of genetics has changed since completion of the human genome project **Returning Individual Research Results to Participants** National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Sciences Policy, Committee on the Return of Individual-Specific Research Results Generated in Research Laboratories, 2018-08-23 When is it appropriate to return individual research results to participants The immense interest in this question has been fostered by the growing movement toward greater transparency and participant engagement in the research enterprise Yet the risks of returning individual research results such as results with unknown validity and the associated burdens on the research enterprise are competing considerations Returning Individual Research Results to Participants reviews the current evidence on the benefits harms and costs of returning individual research results while also considering the ethical social operational and regulatory aspects of the practice This report includes 12 recommendations directed to various stakeholders investigators sponsors research institutions institutional review boards IRBs regulators and participants and are designed to help 1 support decision making regarding the return of results on a study by study basis 2 promote high quality individual research results 3 foster participant understanding of individual research results and 4 revise and harmonize current regulations Finding Answers Southern Illinois University at Carbondale. College of Science, 1988 **Exploring Psychology, Eighth Edition, In Modules** David G. Myers, 2010-07-08 Exploring Psychology Eighth Edition in Modules is the modular version of the 1 bestselling brief introduction to psychology David Myers s Exploring Psychology All the Myers hallmarks are here the captivating writing coverage based on the latest research helpful pedagogical support in a format that delivers the utmost in student accessibility and teaching flexibility Genetics Abstracts, 2001 Human Biology Sylvia S. Mader, 2005-07 The laboratory exercises in this manual are coordinated with Human Biology a text that has two primary functions 1 to understand how the human body works and 2 to understand the relationship of humans to other living things in the biosphere This laboratory manual can be adapted to a variety of course orientations and designs There are a sufficient number of laboratories to permit a choice of activities over the length of the course Many activities may be performed as demonstrations rather than as student activities thereby shortening the time required to cover a particular concept Lab World, 1956 Paternity Testing by Blood Grouping Leon N. Sussman, 1976 Introductory Biology Laboratory Manua Gbg, 1994-09-26 Psychology In Modules (Spiral) David G. Myers, 2009-09-28 Why Myers David Myers has become the world s best selling introductory psychology author by serving the needs of instructors and students so well Each Myers textbook offers an impeccable combination of up to date research well crafted pedagogy and effective media and supplements Most of all each Myers text demonstrates why this author s style works so well for students with his signature compassionate companionable

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