

LAB REPORT: EXPERIMENT 5

TITLE:

Inheritance

OBJECTIVES:

1. To determine the genotype for each of six characteristics.
2. To calculate the observed and expected frequencies for each of the six characteristics.

INTRODUCTION:

A number of human characteristics are determined by single genes. These characteristics include the shape of nose, earlobe, the ability of tongue rolling, the presence of dimple and left-handed. A single gene also determines pigmentation of iris and the ability to taste phenylthiocarbamide (PTC).

An inherited trait is one that is genetically determined. Inherited traits are passed from parent to offspring according to the rules of Mendelian genetics. Most traits are not strictly determined by genes, but rather are influenced by both genes and environment.

ABO blood groups in human are examples of multiple alleles of a single gene and also codominant alleles. Each individual inherited any one of four blood types, i.e. A, B, AB or O. Type A groups are determined by the presence of antigen A found on the surface of red blood cells (erythrocytes), while the blood plasma contains B antibody which agglutinates type B blood. Individuals with type B blood have antigen B and antibody A which agglutinates type A blood. Individuals with type AB blood have both antigens A and antigen B but without antibodies A or B. Finally, individuals with type O blood have antibody A and antibody B but without any antigen. Table 5.2 shows individual characteristics for all ABO blood groups.

BLOOD GROUP (PHENOTYPES)	ANTIGEN PRESENT ON ERYTHROCYTES	ANTIBODIES PRESENT IN BLOOD PLASMA (SERUM)	AGGLUTINATED BLOOD GROUP
A	A	ANTI-B	B
B	B	ANTI-A	A
AB	A AND B	NONE	NONE
O	NONE	ANTI-A AND ANTI-B	A AND B

In this experiment, we will observe the human characteristics in class S3K3T1. We can observe the number of students with straight or curved nose, the ability of tongue rolling, the presence of dimple, students with or without dimples and students with left-handed or right-handed. Besides the characteristic, in this experiment also we will observe the blood group. Hence of that, from this experiment we will get to know the observed and expected frequency of each phenotypes in the class of S3K3T1.

MATERIALS:

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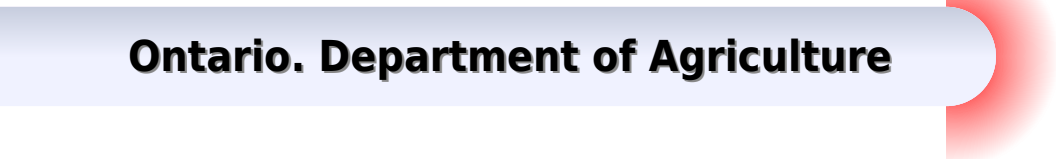
PROCEDURES:

EXERCISE 5.1: INHERITANCE OF GENETIC TRAITS IN HUMAN

1. The exercise would require information to be gathered from every student in the class.
2. Below are six inherited characteristics in human:
 - (i) Shape of nose: Straight nose (E_{-}) is dominant to curved nose (ee).
 - (ii) Earlobe: Free earlobe (P_{-}) is dominant to attached earlobe (pp).
 - (iii) Tongue Rolling: Ability of tongue rolling into "U" shape (C_{-}) is dominant to inability of tongue rolling into "U" shape (cc).
 - (iv) Dimple: Individual with are genotypically (D_{-}) dominant compared to those without dimples (dd).
 - (v) Left-handed: The right-handed characteristic (H_{-}) is dominant to left-handed (hh).
 - (vi) Hitch hiker thumb: The ability to bend thumb at 60° angle or more are genotypically (T) recessive compared to normal thumb-bending (T_{-}).
3. Observed and record the data in table.
4. Calculate the observed and expected frequencies for each of the six characteristics.

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Table of Contents Animal Histology Lab Report Matriculation

1. Understanding the eBook Animal Histology Lab Report Matriculation
 - The Rise of Digital Reading Animal Histology Lab Report Matriculation
 - Advantages of eBooks Over Traditional Books
2. Identifying Animal Histology Lab Report Matriculation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Animal Histology Lab Report Matriculation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Animal Histology Lab Report Matriculation
 - Personalized Recommendations
 - Animal Histology Lab Report Matriculation User Reviews and Ratings
 - Animal Histology Lab Report Matriculation and Bestseller Lists
5. Accessing Animal Histology Lab Report Matriculation Free and Paid eBooks
 - Animal Histology Lab Report Matriculation Public Domain eBooks
 - Animal Histology Lab Report Matriculation eBook Subscription Services
 - Animal Histology Lab Report Matriculation Budget-Friendly Options

6. Navigating Animal Histology Lab Report Matriculation eBook Formats
 - ePub, PDF, MOBI, and More
 - Animal Histology Lab Report Matriculation Compatibility with Devices
 - Animal Histology Lab Report Matriculation Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Animal Histology Lab Report Matriculation
 - Highlighting and Note-Taking Animal Histology Lab Report Matriculation
 - Interactive Elements Animal Histology Lab Report Matriculation
8. Staying Engaged with Animal Histology Lab Report Matriculation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Animal Histology Lab Report Matriculation
9. Balancing eBooks and Physical Books Animal Histology Lab Report Matriculation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Animal Histology Lab Report Matriculation
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Animal Histology Lab Report Matriculation
 - Setting Reading Goals Animal Histology Lab Report Matriculation
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Animal Histology Lab Report Matriculation
 - Fact-Checking eBook Content of Animal Histology Lab Report Matriculation
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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